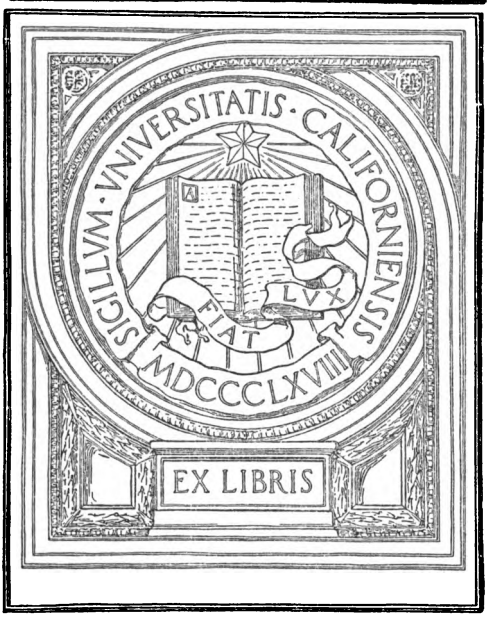
A
000 227 216 9
UC SOUTHERN REGIONAL LIBRARY FACILITY

Digitized by Google

DU
83.R
A45
index
v.1-15

UNIVERSITY OF CALIFORNIA
AT LOS ANGELES



Digitized by Google

Digitized by Google

Digitized by Google

Digitized by Google

Digitized by Google

add. V. (green)

INDEX

TO THE

ALPINE JOURNAL

VOLS. I. TO XV.

INCLUDING 'PEAKS, PASSES, AND GLACIERS'

EDITED BY

F. A. WALLROTH

VICE-PRESIDENT OF THE ALPINE CLUB

UNIV. OF CALIFORNIA AT LOS ANGELES LIBRARY

LONDON

LONGMANS, GREEN, AND CO.

AND NEW YORK: 15 EAST 16th STREET

1892

Digitized by Google

PRINTED BY
SPOTTISWOODE AND CO., NEW-STREET SQUARE
LONDON

UNIV. OF CALIFORNIA
AT LOS ANGELES
LIBRARY

Digitized by Google

DQ
9.K.R.
A15
index
v. 1-15

PREFACE

THE Index to the 'Alpine Journal' was commenced five years ago, but, owing to various causes, the completion of the work has been delayed; but the delay will not, I hope, detract from its value, as, by including the volumes since published, it is now brought down to date.

The original scheme was rather more elaborate than the present, the matter contained being divided into seven heads. This it was thought advisable to curtail, and it has therefore been condensed into four sections, viz.:—

I. The Names of Authors of signed articles and notes, followed in each case by a list of writings, excluding New Expeditions, In Memoriam notices, and Reviews.

II. A list of Maps and Illustrations.

III. A special Index for each mountain group in the Alps (based largely on the arrangement in 'Ball's Alpine Guide'), the headings of which are set out with an explanatory map. Additional special headings for non-Alpine groups.

IV. General Index.

The three vols. of 'Peaks, Passes, and Glaciers' are included in the Index, and are numbered P. i., P. ii., and P. iii., to avoid the confusion of the two series.

The dates of issue of the various numbers of the 'Alpine Journal' are given, as in many cases this will facilitate reference.

I have to express my thanks to Messrs. Blackstone, Brooksbank, Coolidge, Gardiner, Marett, W. Mathews, Packe, Sowerby, Tuckett, and Walker, who kindly undertook the task of indexing various volumes; and also to Mr. Dent, who, in addition to indexing a volume, has helped me in the revision of the proofs.

June, 1892. F. A. WALLROTH.

Quantich - 5-1-43 - Geography

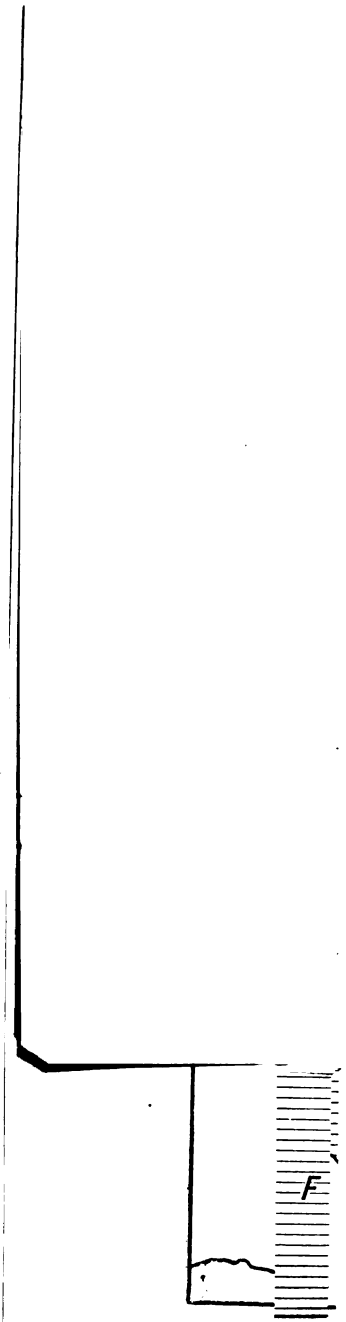
450183

Digitized by Google

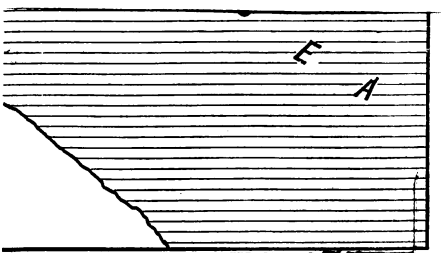
MAP

to face opposite page

Digitized by Google



Digitized by Google



Walker & Boutall sc.

Digitized by Google

LIST OF DISTRICTS INTO WHICH THE ALPS HAVE BEEN DIVIDED FOR THE PURPOSES OF SECTION III. OF THE INDEX

1. *Maritime Alps.*—Main chain from Col d'Altare to Col de l'Argentière, S. of Col di Tenda.
2. *Cottian Alps.*—From Col de l'Argentière to the Mont Cenis, E. of the Durance Valley and Col du Galibier.
3. *Dauphiné Alps.*—W. of the Durance Valley and Col du Galibier.
4. *Tarentaise Alps.*—N. of the Arc Valley and W. of Col d'Iseran and the Tignes Valley.
5. *Graian Alps.*—From Mont Cenis to the Little St. Bernard, E. of Col d'Iseran, E. and N. of the Arc Valley.
6. *Mont Blanc.*—From the Little St. Bernard to the Great St. Bernard, S. and E. of the Chamonix Valley.
7. *Chablais, Genevois, and Faucigny.*—N. of the Chamonix Valley, S. of the Lake of Geneva, and W. of the Rhone Valley.
8. *Great St. Bernard.*—From the Great St. Bernard to Cols de Valpelline and d'Hérens, W. of the Evolena Valley, including Arolla.
9. *Evolena—Zinal.*—E. of the Evolena Valley, W. of the Zermatt Valley, N. of Col d'Hérens.
10. *Monte Rosa.*—From Col de Valpelline to Monte Moro, including the Saasgrat.
11. *Simplon.*—From Monte Moro to the Simplon, including Monte Leone.
12. *Lepontine Alps.*—From the Simplon to the St. Gotthard, including Ticino and the Italian Lakes.
13. *Diablerets.*—W. of the Gemmi, N. of the Rhone Valley.
14. *Bernese Oberland.*—E. of the Gemmi, W. of the Grimsel.
15. *Titlis and Rhone Glacier.*—From the Grimsel Valley to the Reuss Valley, S. of the Lake of Lucerne, N. of the Furka.
16. *North Switzerland.*—N. and W. of the Vorder Rhein Valley, E. of the Lake of Lucerne, including the Rigi, Glärnisch, Säntis, and Tödi.
17. *St. Gotthard.*—From the St. Gotthard to the Fluela Pass, S. of the Vorder Rhine Valley, N. of the Inn Valley.

Digitized by Google

18. *Bernina.*—From the Inn Valley to the Adda Valley, W. of the Stelvio, E. of Lake Como.

19. *Ortler District.*—From the Stelvio to the Botzen Valley (Lower Adige), N. of the Tonale Pass, S. of the Upper Adige Valley.

20. *Adamello and Brenta District.*—S. of the Adda, Tonale Pass, and Val di Sole, E. of Lake Como, W. of the Adige.

21. *North Tyrol.*—N. of the Inn Valley, Pinzgau, and Ennsthal, between the Fluela Pass, Inn, and Bavarian plain, including the Silvretta group, Vorarlberg, and Salzburg.

22. *Central Tyrol.*—S. of the Inn Valley, Pinzgau, and Ennsthal, N. of the Drave, E. of the Adige, including the Oetzthal, Stubai, Zillerthal, Gr. Venediger, and Gr. Glockner.

23. *South Tyrol or Dolomites.*—S. of the Drave, E. of the Adige, W. of the Piave.

24. *South-Eastern Alps.*—E. of the Piave, including Terglou, Bosnia, Herzegovina, &c.

Digitized by Google

DATES OF PUBLICATION OF 'PEAKS, PASSES, AND GLACIERS,' AND THE NUMBERS OF THE 'ALPINE JOURNAL'

P. i. 1859

VOL. I.

No.
1. March, 1863
2. June, 1863
3. September, 1863
4. December, 1863
5. March, 1864
6. June, 1864
7. September, 1864
8. December, 1864

VOL. II.

9. March, 1865
10. June, 1865
11. September, 1865
12. December, 1865
13. March, 1866
14. June, 1866
15. September, 1866
16. December, 1866

VOL. III.

17. }
18. } 1867
19. }
20. }

VOL. IV.

21. May, 1868
22. August, 1868
23. November, 1868
24. February, 1869
25. May, 1869
26. August, 1869
27. November, 1869
28. February, 1870

P. ii. and P. iii. 1862

VOL. V.

No.
29. May, 1870
30. August, 1870
31. November, 1870
32. February, 1871
33. May, 1871
34. November, 1871
35. February, 1872
36. May, 1872

VOL. VI.

37. August, 1872
38. November, 1872
39. February, 1873
40. May, 1873
41. August, 1873
42. November, 1873
43. February, 1874
44. May, 1874

VOL. VII.

45. August, 1874
46. November, 1874
47. February, 1875
48. May, 1875
49. August, 1875
50. November, 1875
51. February, 1876
52. May, 1876

VOL. VIII.

53. August, 1876
54. November, 1876
55. February, 1877

Digitized by Google

No.
56. May, 1877
57. August, 1877
58. November, 1877
59. February, 1878
60. May, 1878

Vol. IX.

61. August, 1878
62. November, 1878
63. February, 1879
64. May, 1879
65. August, 1879
66. November, 1879
67. February, 1880
68. May, 1880

Vol. X.

69. August, 1880
70. November, 1880
71. February, 1881
72. May, 1881
73. August, 1881
74. November, 1881
75. February, 1882
76. May, 1882

Vol. XI.

77. August, 1882
78. November, 1882
79. February, 1883
80. May, 1883
81. August, 1883
82. November, 1883
83. February, 1884
84. May, 1884

Vol. XII.

No.
85. August, 1884
86. November, 1884
87. February, 1885
88. May, 1885
89. August, 1885
90. November, 1885
91. February, 1886
92. May, 1886

Vol. XIII.

93. August, 1886
94. November, 1886
95. February, 1887
96. May, 1887
97. August, 1887
98. November, 1887
99. February, 1888
100. May, 1888

Vol. XIV.

101. August, 1888
102. November, 1888
103. February, 1889
104. May, 1889
105. August, 1889
106. November, 1889

Vol. XV.

107. February, 1890
108. May, 1890
109. August, 1890
110. November, 1890
111. February, 1891
112. May, 1891
113. August, 1891
114. November, 1891

Editors

P. i., J. Ball
P. ii. and iii., E. S. Kennedy
Vols. i.–iii., H. B. George
Vols. iv. v., L. Stephen
Vols. vi.–ix., D. W. Freshfield
Vols. x.–xiv., W. A. B. Coolidge
Vol. xv., A. J. Butler

Digitized by Google

INDEX TO ALPINE JOURNAL

VOLUMES I. TO XV.

AND

PEAKS, PASSES, AND GLACIERS[1]

SECTION I.—NAMES OF AUTHORS OF PAPERS AND NOTES[2]

followed in each case by a List of Writings, excluding New Expeditions, In Memoriam notices, and Reviews.

A. C., Hohbalm, viii. 284
A. P., Sesia Joch, v. 143
Abercromby, D. J., fatal accident on the Felik Joch, viii. 112, 163
— second ascent of the Aiguille du Midi, v. 44
— Swiss Jahrfest, a, vi. 184
Adams-Reilly, A., Bec de Luseney, the, iii. 49
— new ascents in the chain of Mont Blanc, ii. 97
— rough survey of the chain of Mont Blanc, a, i. 257
Allbutt, T. C., effect of exercise upon the bodily temperature, v. 212
— health and training of mountaineers, viii. 30
Alpine Club, memorial to the French Government with reference to the guide system at Chamonix, vi. 421
Ames, E. L., ascent of the Fletschhorn and the Allalinhorn, P. i. 206
Anderson, E., Schreckhorn, the, P. i. 234
Anderson, J. S., accident on the Dent Blanche, xi. 98
— Dent Blanche from Zinal, xi. 158
— new tracks on the Eiger and Breithorn, xii. 240
— Schreckhorn by the N.W. arête, the, xi. 437
Babington, C. C., list of Icelandic plants, P. ii. 125
Baillie-Grohmann, W. A., ascent of the Gross Glockner, vii. 211
— Golden eagle and its eyrie, the, vii. 92
Baker, G. P., ascent of Ararat, ix. 318
— new pass in Norway, xii. 268
Balfour, F. M. & G. W., attempt on the Aiguille des Charmoz, x. 397
Ball, J., Almerhorn, the, i. 320
— glaciers and meteorology, ix. 298
— mountaineering in the Great Atlas, vi. 220
— notes on the botany of the district of Bormio, v. 177
— pass of the Schwarzthor, P. i. 155
— passage of the Strahleck, P. i. 255
— Pizzo Stella, ii. 272
— Riva to Pinzolo by the Bocca di Brenta, i. 442
— suggestions for Alpine travellers, P. i. 490
— Val di Genova and the Pisgana Pass, ii. 11
Ball, R. F., Sgurr Nan Gillian, xv. 70
Balmat, Chamonix guides, vi. 372, 380

[1] The three vols. of Peaks, Passes, and Glaciers are referred to as P. i., P. ii., P. iii.
[2] Notes signed by known initials are indexed under the author's name.

Digitized by Google

Barnard, G., hints on sketching in water-colours in the Alps, ix. 78
Barnes, G. S., Dents des Bouquetins, xiii. 529
Barrett, H., accident on the Wetterhorn, xi. 94
— strange sight on Snowdon, xi. 482
Barrington, C., first ascent of the Eiger, xi. 172
Baumann, J., adventure on the Aiguille du Plan, x. 443
Beachcroft, R. M., from Simplon to Tosa Falls, xi. 395
Bennett, G., traveller shot at on the Gemmi, xiii. 184
Bennett, R. D., Adamello district, the, v. 186
Bircham, F. T., Piz Roseg, the, i. 255
Blackstone, F. E., from Courmayeur to the Great St. Bernard, ii. 419
— from the Forclaz to Orsières by the Valley of Champey, i. 47
— from St. Nicholas to Susten by the mountains, i. 93
— passage of the Col de la Selle from La Grave to St. Christophe, P. iii. 215
Blanford, T., Maurienne, the, ii. 177
Bolognini, N., churches of Val Rendena and the legend of Charles the Great, the, vii. 447
Bonney, T. G., address, xi. 373
— An der Lenk to Kandersteg or Leukerbad by the Rothkumme Glacier, ii. 270
— climbing with one guide, xi. 100
— Dent Perroc and Aiguille de la Za, viii. 18
— excursion in Dauphiné, an, i. 66
— Gross Glockner, the, vi. 150
— growth and sculpture of the Alps, xiv. 38, 105, 221
— Levanna district, the, ii. 79
— Lofoten Islands, the, iv. 427
— range of the Meije, i. 302
— Val de St. Christophe and Col de Sais, P. iii. 198
Bowen, Sir G. F., Southern Alps of New Zealand, the, vi. 364
Bowles, R. L., sunburn, xiv. 122
Bowling, E. W., Grand Combin and the high-level route, the, vii. 398
Brinton, W., ascent of the Gross Glockner, P. ii. 429
— German Alps, the, P. ii. 425
Brocklehurst, F. D., Sooroo route from Leh to Cashmere, the, iv. 193
Brooksbank, T., about Engelberg, vi. 74
— Balmhorn and Regizi Furke, vii. 441
— Bistenen Pass, the, ii. 317
— Brunni Pass from Amsteg to Dissentis, ii. 216
— Cols de Breney and de la Serpentine, vi. 366
— Faldum Pass, the, ii. 91
— from Engelberg to Altdorf by the Rothgrätli, ii. 365
— Gamchi Glacier, the, ii. 156, 270
— Göschenen-Limmi, the, ii. 157
— inn at Obergestelen, vii. 165
— Laquin and Rossboden Passes, the, vii. 124, 215
— Riemenstalden Thal and Kulm Pass, vii. 165
Brown, F. A. G., Mont Blanc from the Glacier de Miage, iv. 261
Brulle, H., ascent of Cima della Madonna (Sass Maor), xiii. 455
Bryce, J., ascent of Ararat, viii. 208
— stray notes on mountain climbing in Iceland, vii. 50
Budden, R. H., avalanches in the Piedmontese Alps, the, xii. 260
Bull, T. W., Kilchistock, the, viii. 160
Bunbury, E. H., excursion from the Eggischhorn to the Col de la Jungfrau, P. i. 309
Burton, R. F., visit to Fernando Po Peak, a, vi. 1
Butler, A. J., huts of the German Alpine Club, xii. 263
— innkeeper at Schlinig, xiii. 478
— Oetzthal district, the, xiv. 455
— some undesigned new routes, xv. 361
Butler, G., proposed English church at Grindelwald, xii. 489
Buxton, E. N., Glacier du Dôme, the, ii. 332
— Glaciers of the Bernina, the, i. 339
— Nord End of Monte Rosa, P. ii. 412
Buxton, Sir T. F., Col de Chermontane, P. ii. 273

Digitized by Google

CAMPBELL, J. R., excursions in Norway, v. 49
— Lauteraar Sattel, the, i. 60
— process of determining depth, a, vi. 282
— travelling in Norway, iv. 1
Carfrae, J. A., and others, Lyskamm accident, the, viii. 346
Carrington, J. B., Matten Limmi, the, xiv. 247
Carson, T. H., notes from the Italian Alps, xi. 369
Carteighe, M., ascent of the Dom from Saas, xv. 101
— note on Dauphiné in 1887, xiii. 460
Chater, G., second ascent of the Viescherhorn, i. 319
Cheetham, J. F., Thibetan route from Simla to Srinágar, the, iii. 118
Clayton, E., mountains of Kurdistan, xiii. 293
— new route up the Jungfrau from the Rothtbal, the, xiv. 245
— Roches Moutonnées, vii. 401
— struck by lightning, viii. 449
Cobb, G. F., Isenthal, ii. 421
Cole, G. R. F., railroad across the Andes, viii. 425
Coleman, E. T., mountaineering on the Pacific, v. 357
— mountains and mountaineering in the far West, viii. 233, 385
Compton, E. T., expeditions in the Brenta group, xi. 309
Conway, W. M., Alpine art in the Eastern Alps, x. 280
— centrists and excentrists, xv. 397
— Dom from the Domjoch, the, xv. 104
— exhausted districts, xv. 255
— life in the Vispthal at the beginning of the sixteenth century, xii. 380
— Monte Rosa from the South, xii. 65
— new routes in general, xiii. 161
— North district of the Saas Grat, the, x. 332
— passes across the Weissthor ridge, xi. 193
— routes up the Rossbodenhorn, x. 489
Coolidge, W. A. B., accident to Mr. Watson on the Bildstöckljoch, xv. 156
Coolidge, W. A. B., Aiguille de Polset, xii. 269
— Aiguille du Midi de Peisey, ix. 169
— Aiguilles d'Arve, the, viii. 57
— along the frontier from the tunnel to the Levanna, xi. 333
— Alpine bibliography, 1878-9, ix. 503
— Alpine games, xiv. 61
— Alpine inns and huts, x. 487; xi. 412; xiv. 518
— Alpine veteran, an, ix. 310
— ascent of the Meije, ix. 121
— Dauphiné in 1870, v. 128
— Dauphiné jottings, xii. 174
— day and night on the Bietschhorn, a, vi. 114
— Diablerets from the Creux de Champs, viii. 400
— early ascents of the Dent Blanche, xv. 64
— early attempts on Monte Rosa from the Zermatt side, the, xv. 493
— explorations among the Cottian Alps: (1) The Chambeyron district, x. 123; (2) Monte Viso, x. 453
— explorations in Dauphiné, vii. 136
— first ascent of the Zermatt Breithorn, xv. 437
— Grindelwald and Zermatt in the olden days, xv. 223
— Kilchfluh Pass, or Sausgrat, xiii. 423
— maps of the Alps, xiii. 270
— Meije from La Grave, the, xii. 391
— new inn at La Bérarde, xiii. 419
— notes from the neighbourhood of Stein, xv. 72
— notes on inns in the Cottian and Maritime Alps, ix. 497; in the Tarentaise, ix. 238
— Pelvo d'Elva, the, xv. 330
— Pointe de Bazel and the Col de Tsanteleina, xv. 154
— Punta Bianca, xv. 440
— records left on mountain tops, xiii. 129
— Saracens in the Alps, the, ix. 254; x. 269

Digitized by Google

Coolidge, W. A. B., Schreckhorn in winter, the, ix. 213
— Signor Sella's Dauphiné photographs, xiv. 250
— Société des Touristes and La Bérarde, xi. 411
— some peaks and passes in the Oberland, xiii. 266
— Tête du Salude, x. 491
— two notes on early mountaineering, xiv. 406
— Wetterhorn and Jungfrau in winter, vi. 405
Coolidge, W. A. B., and Gardiner, F., Hühnerstock, the, xv. 323
Cordier, H., ascension du Finsteraarhorn par le Rothhornsattel, viii. 262
Cornish, T., accident in the Maderaner Thal, the, xv. 275
— ascent of the Weisshorn from Zinal, xv. 192
— Weisshorn from the Zinal side, xiv. 515
Cowell, J. J., on some relics of the guides lost on Mont Blanc, i. 332
— two ascents of the Grand Paradis, P. iii. 408
Craven, A. E., around Kandersteg, x. 377
Cullinan, F. J., Aiguille de Talèfre, x. 25
Cunningham, C. D., accident on the Aiguille Blanche de Peuteret, xi. 90
— Alps in winter, the, xi. 253
— autumn and winter mountaineering, xii. 171
— decline of Chamonix as a mountaineering centre, xi. 459
— Great Scheideck in winter, xiii. 73
— hill-climbing in Scotland, xii. 502
— winter ascent of Ben Nevis, xi. 182, 480
Cust, A., Aiguille de la Za from the Glacier de Dauva Blantz, ix. 170
— Alpine inns and huts, x. 487
— Arolla, notes on, chiefly etymological, viii. 94
— ascents of Mont Colon, Mont Brulé, and the Dents des Bouquetins, viii. 133
— Col de Cheillon, vii. 216
— Col de l'Oulie Cecca, xi. 239
— Col d'Otemma, x. 492
Cust, A., Dents des Bouquetins, viii. 224
— Matterhorn without guides, the, viii. 242
— Mr. Gosset's survey of the Rhone Glacier, ix. 431
— nomenclature of the Otemma Peaks, xii. 523
— Pic d'Olan, xiii. 57
— rocks and rambles in the Combe d'Arolla, viii. 1
— to Arolla by Val de Nendaz, xi. 238
— wanderings in Ticino, x. 56, 146

Darwin, G. H., accident on the Aiguille Blanche de Peuteret, xi. 93
Davidson, W. E., Aiguille du Dru, xi. 367
— Col Dolent, ix. 236
Davies, J. Ll., ascent of the Dom, P. i. 194
Déchy, M. de, ascent of Maglich, the, xiv. 417
— first ascent of Adai Choch, xii. 209, 314, 493
— itinerary of a tour in the Central Caucasus, xii. 89
— mountain travel in the Sikkim Himalaya, x. 1
Décle, L., Grande Fourche, la, vii. 439
Dent, C. T., address, xv. 3
— Alpine climbing—past, present, and future, ix. 65
— amateurs and professional guides of the present day, xii. 289
— ascent of Tetnuld Tau (Gestola), xiii. 220
— expedition to the Caucasus, notes on an, xiv. 94
— history of an ascent of the Aiguille du Dru, ix. 185
— history of the search expedition to the Caucasus, xv. 26
— hundredth number of the 'Alpine Journal,' the, xiii. 497
— M. Janssen's ascent of Mont Blanc, xv. 326
— mountaineering in the old style, xi. 382
— old friend with a new face, an, xi. 215
— Rocky Mountains of Skye, the, xv. 422

Digitized by Google

Dent, C. T., Rothhorn from Zermatt, the, vi. 268
— search expedition to the Caucasus, xiv. 432
— Tetnuld and Gestola, xiii. 418
— two attempts on the Aiguille du Dru, vii. 65
Diener, C., hypsometry of the Dolomites, xiv. 60
Dodson, J. G., passages of the Glacier du Tour and Col du Miage, P. ii. 189
Donkin, W. F., journey in the Caucasus in 1888, xiv. 311
— mountaineering in the Caucasus, xiii. 242
— photography in the High Alps, xi. 63
Douglas, Lord F., Gabelhorn, the, ii. 221
Duhamel, H., ancient glacier passes of Dauphiné, xiii. 538
— Ecrins from the south, the, x. 219
— passes between the valleys of the Vénéon and of the Romanche, x. 264
— topography of the Meije and the Grande Ruine, ix. 293
Durier, C., first passage of the Col du Géant, ix. 86

Eccles, J., ascent of Mont Blanc by the Broglia and Fresnay Glaciers, viii. 409
— effects of lightning on crystalline rocks, xiv. 118
— Rocky Mountain region of Wyoming and Idaho, the, ix. 241
Eden, C., ascent of El Viejo, i. 223
— Serra da Estrella, the, v. 122
Evans, T. W., ascent of Baula, i. 360
— expedition to Cape Reykjanes, i. 247

F. L. H., ascent of Popocatepetl, iv. 234
Falkner, A. de, Cimon della Pala, the, viii. 162
— Primiero, viii. 278
Farrar, J. P., Finsteraarhorn by S. arête, xi. 368
— Weisshorn by the western face, xi. 416
Finlaison, J., ascent of the Dent Blanche, ii. 292
Fison, E. H., accident on the Piz Bernina, xi. 343
Fitzgerald, W. H. W., misconduct of a guide, x. 108
Forster, R. W. E., baths of Stachelberg and the heights and passes in the vicinity, the, P. i. 371
— from the Grütli to the Grimsel, P. iii. 73
— Swiss pensions, i. 95
Foster, G. E., Aiguille du Midi, v. 145
— ascent of Mont Colon, v. 350
— Eiger from the Eigerjoch, the, viii. 203
— new passes in the Mischabel range, iv. 365
Fowler, R., Aiguille Verte and the Chardonnet, the, iv. 140
— ascent of the Breithorn from the north, v. 44
Freeman, C. E., Gross Grünhorr from the Concordia Hut, xv. 328
Freshfield, D. W., Alpine dangers, vii. 158, 279
— Alpine maps, x. 42
— Besimauda, the, xi. 302
— Brenta Alta and the Cima Tosa, the, vii. 46
— bye-corners in Savoy, xii. 1, 137
— Canale, vii. 46
— Caucasian literature, ix. 182
— Caucasus, topographical results, xiv. 452
— Central Caucasus in 1887, a skeleton diary of six weeks' travel in, xiii. 353
— Chartreuse de Reposoir, the, xv. 331
— climbs in the Caucasus, xiii. 499; xiv. 1
— Col de la Tour Ronde, v. 230
— criticism on Alpine literature, a, vii. 443
— dolomites of Val Rendena, v. 249
— earliest attempts on Monte Rosa, xii. 468
— early ascents of Ararat, viii. 213
— early explorers of the Caucasus, xiv. 314
— Engadine and neighbourhood, the, v. 279
— English climbers and Caucasian critics, xii. 320

Digitized by Google

Freshfield, D. W., explorations and ascents in the Caucasus in 1889, xiv. 436
— glaciers and meteorology, ix. 300
— gleanings from Cogne, viii. 300
— Gran Sasso d'Italia, the, viii. 353
— great peaks of the Himalaya, xii. 448
— Himalayan and Alpine mountaineering, xii. 99
— hints for Caucasian exploration, xi. 471
— hints for travellers in the Caucasus and elsewhere, xiv. 24
— history of the Buet, ix. 6
— itinerary of a tour in the Caucasus, iv. 160
— Kaltwasser Sattel, the, vi. 197
— Kilima-njaro, xiii. 475
— Lago d'Iséo, Lovere, and Val di Scalve, viii. 85
— legends of the Val di Genova, vii. 440
— manners and customs of the Engadine, vi. 432
— Maritime Alps, the, ix. 137, 385; xiii. 177
— mediæval routes across the Alps, vi. 372
— Midsummer in Corsica, x. 194
— Monte Generoso, viii. 52
— Monte Tezio, xii. 175
— Mustagh Pass, the, xiv. 50
— new route across the Italian lakes, xiii. 38
— night on the Elbruz Saddle, xiv. 239
— note on Algerian mountains, xiv. 82
— note on Professor Tyndall's attempt on the Matterhorn in 1862, v. 335
— note on the Maritime Alps, x. 45
— note on the Saracens at Saas and elsewhere in the Alps, ix. 208
— notes on old tracks: I. The Oberland, ix. 484; II. The Dolomites, x. 68; III. Round Monte Rosa, x. 158; IV. The mountains of Dante, x. 400; V. Gorges of the Roja, and Spur of Turbia, xi. 228
— notes on the Himalaya and the Himalayan survey, xii. 52
— Ortler group, the, v. 284
— Ost Spitze of Monte Rosa, the, vi. 244
Freshfield, D. W., Pass of Hannibal, the, xi. 267; xiii. 28
— Passo di Ritorto, vi. 150
— Pelmo, the, vi. 257
— Placidus a Spescha, and early mountaineering in the Bündner Oberland, x. 289
— Punta Sengie, the, xii. 176
— recent additions to the Club-rooms, xii. 342
— Rocher de Plassas, x. 491
— Sanctuary of San Chiaffredo, the, x. 481
— Saracens in the Alps, the, x. 274
— Saracens at Saas, the, ix. 282
— sketches from the Apennines, the Pania della Croce, vii. 372
— solitude of Abkhasia, xv. 237
— spring in the Pyrenees, vii. 47
— Swiss Dolomites, v. 200
— Swiss sketches, x. 497
— tramps in the Western Highlands, xiii. 473
— Tyrol *v.* Tirol, xii. 471
— Vallombrosa and the Prato Magno, xiii. 557
— Vallot's, M., cabin on Mont Blanc, xv. 328
— Zillerthaler Ferner, the, vii. 281

G. O. S., winter ascent of Glyder Fawr, a, vi. 195
Galton, F., avalanches of the Jungfrau, i. 184
Gardiner, F., across the Pyrenees, xi. 399
— ascent of Elbruz, vii. 113
— Dauphiné in 1873, vii. 80
— excursions in the Lepontine Alps, ix. 57
— expeditions from the Saas Thal, viii. 148
— expeditions round Zermatt in 1876, viii. 375
— first ascent of the Hühnerstock, xiii. 309
— first ascent of the Punta del Broglio, xiv. 466
— mountaineering in Dauphiné without guides, ix. 219
— mountaineering in June, 1876, viii. 269
— three new ascents without guides in Southern Dauphiné, x. 138
— visit to Montserrat, a, xi. 226

Digitized by Google

Gardiner, F., week amongst the French Dolomites, a, xiv. 211
Gardiner, F., and others, itinerary of a tour in the Caucasus, vii. 100
Garvagh, Lord, plea for Norway, a, viii. 49
George H. B., axe *v.* alpenstock, iv. 126
— blue light in snow, iii. 220
— Col de la Tour Noire, i. 274; xv. 497
— Elbruz and the attempted ascent of it by a Russian expedition, ii. 168
— fête of the French Alpine Club, Annecy, 1876, viii. 221
— Finsteraarjoch, the, i. 249
— guides at Pontresina, i. 142
— knots for roping travellers, ii. 95
— mediæval routes across the Eastern Alps, vi. 371
— Mönch from the Wengern Alp, the, i. 85
— Monte Rosa seen from the Simplon, i. 207
— mountain huts, vii. 337; in the Bernese Oberland, vii. 164
— mountaineering notes, iv. 237
— note from the neighbourhood of Courmayeur, vii. 400
— notes on photography in the High Alps, iv. 402
— Nugæ Alpiculares, xiii. 327
— phenomenon on the Arolla Glacier, x. 492
— Sesiajoch, the, i. 49
— Sion Festival of the Swiss Alpine Club, the, vii. 159
— suggestions as to the best mode of carrying a pack, iii. 95
— Val di Genova, x. 112
Gilbert J., Canale, vii. 45
Godley, A. D., Märbegglücke, the, xiv. 514
Goodhart, C. W., balloons for mountaineers, vi. 317
Gorret, A., Italian ascent of the Matterhorn, the, ii. 237
Gosset, P. C., accident on the Haut de Cry, i. 288
— hut on the Jungfrau, xii. 171
— inundations in Switzerland in 1868, iv. 177
Gotch, H. G., Meije, the, viii. 177
Graham, W. W., Aiguille du Géant, xi. 73
Graham, W. W., climbing in the Himalaya, xi. 365
— Kumaon map, the, xii. 265
— mountaineering in Sikkim, xi. 402
— travel and ascents in the Himalaya, xii. 25
Green, W. S., climbing in New Zealand, xi. 301
— journey into the glacier regions of New Zealand, xi. 1, 57, 129
— Lendenfeld's, Dr. R. von, explorations in the Southern Alps of New Zealand, xii. 162
Greene, W. A., circular rainbows, xii. 173
— Dauphiné in 1888, xiv. 372
Grove, F. C., address, xiii. 213
— Alpine training diet, xii. 149
— ascent of the Aiguille de Bionnassay, ii. 321
— comparative skill of travellers and guides, v. 87
— discovery on the Riffelhorn, vi. 437
— northern and southern ascents of the Matterhorn, iv. 185
— Ortler Spitze, the, ii. 424
— Studerjoch, the, i. 364
Güssfeldt, P., first ascent of Piz Roseg, the, ix. 383
— Mont Blanc from Courmayeur, xv. 552
— on the Italian side of the Matterhorn, xiii. 418

H., provision for old age of guides, i. 44
Hall, M., Alpine ropes, ii. 224
— glacier observations, xv. 348
Hall, Mrs. Marshall, Zermatt and the New Weissthor in 1849, ix. 173
Hall, W. E., across Lapland, vii. 169
— ascent of the Dent d'Hérens, i. 209
— Col des Bouquetins, the, i. 92
— fatal accident on the Lyskamm, v. 23
— Straits of Magellan and the Andes of Central Chile, iv. 327
Hall, W. E., and others, guides at Pontresina, i. 141
Hamilton, A. B., Dents des Bouquetins, viii. 225

Digitized by Google

Hamilton, A. B., district of Arolla, the, vi. 20
— fête of the French Alpine Club at Grenoble, viii. 445
Hann, J., glaciers and meteorology, ix. 297
Hardy, J. F., Ætna, P. i. 475
— ascent of the Finsteraarhorn, P. i. 283
— ascent of the Lyskamm, P. ii. 383
— ascent of the Piz Bernina, P. ii. 177
— Col du Sonadon from St. Pierre to Chermontane, P. ii. 252
— Jökuls Glacier, the, P. iii. 429
Hartley, J. W., Aiguille du Géant, xi. 302
— Weisshorn from the Schallenberg Glacier, viii. 419
Haskett-Smith, W. P., mountaineering in the Lake district, xiii. 178
Hawker, W. H., accident on the Titlis, the, ii. 223
— Chamois hunt in the Oberland, iv. 129
— Corsica, iv. 269, 289
— wolf hunt in the Maritime Alps, vi. 174
Hawkins, F. V., excursions on the west side of Mont Blanc, P. i. 58
Heathcote, C. G., Col de Pierre Joseph, the, iii. 99
— Laquinjoch, the, iii. 44
Heelis, J., ancient Rhone Glacier, the, xii. 157
Hinchliff, T. W., Alpine flowers, v. 97
— from Zermatt to the Val d'Anniviers by the Trift Pass, P. i. 126
— Wildstrubel and Oldenhorn, the, P. i. 326
Hines, H. K., ascent of Mount Hood, Oregon, iii. 214
Hoare, H. S., accident on the Dent Blanche, xi. 97
— ascent of Mont Maudit, ix. 313
Hodgkinson, G. C., French map of Mont Blanc, the, ii. 421
— hypsometry and the aneroid, P. iii. 463
— minimum thermometers, i. 48
Hogarth, W., Oræfa Jökull water eruption, P. ii. 121
Holder, H. W., expedition to the Caucasus, an, xiv. 177
Holder, H. W., southern valleys of the Caucasus, xv. 513
Holland, E. T., green shadows on snow, i. 95
— phosphorescent snow, i. 143
— tour in Iceland in 1861, P. ii. 3
Holmes, A., Unter Gabelhorn from the Trift Valley, xiii. 176
Holzmann, M., Ampezzo-Sexten-Auronzo Passes, the, vii. 9
— Ampezzo - Cadore - Auronzo Passes, the, vii. 240
— Dammapass, the, xiii. 176
— Dolomites in winter, the, ix. 382
— Monte Laste, vii. 264
— notes on the Brenta group, xi. 413
— Val Larsec, x. 110
Hopkinson, C., &c., ascent of Mjölnir, xiv. 380
Hornby, J. J., ascent of the Silberhorn from the north, ii. 254
— Ebnefluhjoch, Schmadrijoch, and Agassizjoch, iii. 85
Hort, F. J. A., beginnings of the Alpine Club, the, ix. 50
Howard, E., Terglou and Mangert in Carniola, the, iv. 345
Howells, T., ascent of the Glärnisch, i. 120
Howse, T., Cantal, the, x. 37
— flora of the Engadine, ii. 423
— moss flora of St. Moritz, v. 273
Hudson, C., accident on the Col de Miage, the, P. ii. 208
Hudson, J. A., Col delle Loccie, the, i. 75
— Col Tournanche, the, ii. 86
Hughes, R., from the Mittaghorn to the Egginerhorn, xiii. 182
Hulton, E., Monte della Disgrazia from the north-east, xi. 245
Hutchinson, C. B., accident on the Piz Morteratsch, i. 440
— Göschenen-Limmi, the, ii. 158
Hutchison, J. A., climbs in the Titlis district, xii. 266

Jackson, Mrs. E. P., winter quartette, a, xiv. 200
Jacomb, F. W., Col de la Valpelline, &c., P. ii. 306
— Col des Planards, ii. 44
— Col du Sonadon and Col de la Maison Blanche, P. ii. 241

Digitized by Google

Jacomb, F. W., Col du Sonadon to Ollomont; Col de Crête Séche; ascent of Mont Gélé, P. ii. 259
— Finsteraarhorn, the, i. 319
— introductory remarks on the high level route, P. ii. 227
— Italian Alpine Club, an, i. 207
— Tödi, the, i. 320
Jocelyn, N., portable level, a, ii. 43
Jose, T. P. H., Mönch from Wengern Alp, xiii. 128
Judson, C. F., Grand Combin, xv. 444

KENNEDY, E. S., ascent of Monte della Disgrazia, i. 3
— ascent of Piz Bernina, P. ii. 146
— May and December on the Faulhorn, xiv. 302
— night adventure on the Bristenstock, a, P. i. 353
Kennedy, E. S., and others, report of the Special Committee on Ropes, Axes, and Alpenstocks, i. 321
Kennedy, T. S., accident on the Brouillard Glacier, the, vii. 110
— ascent of the Aiguille Verte, iii. 68
— ascent of the Dent Blanche, i. 33
— excursions from Courmayeur in the range of Mont Blanc, vi. 168
— Zermatt and the Matterhorn in winter, i. 77
King, H. S., first ascent of the Aiguille Blanche de Peuteret, xii. 431
— three new ascents in the Bernese Oberland, xiv. 25
King, H. S., and Barrett, H., Supersax fund, xii. 465
Kitson, J. H., Jungfrau, the, v. 377
— Weisshorn from the north, the, v. 305
Koch, German Alpine Club and the Tyrolese guides, the, vi. 369

LARDEN, W., Chanrion and other places, xv. 532
— rambling reminiscences of Arolla, xiii. 446
Latham, F. L., Bregenzer Wald, the, ii. 154
— personation of a guide, i. 48
— Sertig Pass from Davos to Scanfs, i. 318
Law, E. D., indiarubber *versus* paper as a material for Alpine maps, x. 40
Layton, C. E., Balfrinhorn, the, xi. 414
Leaf, W., accident on the Aiguille Blanche de Peuteret, xi. 91
— climbing with a hand camera, xv. 472
Leman, J. C., circular rainbows, xii. 173
— Fee Pass, the, xi. 414
Lendenfeld, R. von, Dachstein group, the, ix. 495
— New Zealand Alps, the, xii. 339
Lindt, R., Mr. Gosset's survey of the Rhone Glacier, ix. 500
Longman, W., accident on the Aletsch Glacier, i. 20
— Chamonix guides, vi. 314, 379
— modern mountaineering, viii. App. 1
Loppé, G., Chamonix guides, vi. 375
— Mont Blanc in winter, vii. 437
Lorria, A., ascent of the Hohberghorn, xiii. 521
— early names of the Lyskamm and Wellenküppe, xiii. 555
— Gross Viescherhorn, xiii. 555
— huts in Eastern Alps, xiii. 39, 265
— tablet to the memory of Sir Humphry Davy, xiii. 265
— three new ascents in the Bernese Oberland without guides, xiii. 378
Ludwig, J. M., third peak of Piz Roseg, ix. 168
Luttman-Johnson, J. A., from the Capanna Gnifetti to Zermatt, xv. 223
— variation of the Adler Pass, xiii. 185

MCCORMICK, J., fatal accident on the Riffelhorn, ii. 153
Macdonald, C. A., new descent from the Schreckhorn, a, xv. 370
Macdonald, R. S., ascent of the Mönch, i. 423
— passage of the Roththal Sattel and ascent of the Jungfrau, ii. 161
Mackey, A. J., Lepontine Alps, xv. 152
Main, Mrs., Wetterhorn; descent by the Renfen Glacier, xv. 369
Malkin, A. T., leaves from the diary of, xv. 40, 120, 205
— Zermatt and the Weissthor in 1840, x. 44

Digitized by Google

Marcet, W., breathing at high altitudes, xiii. 1
— on the use of alcoholic stimulants in mountaineering, xiii. 319
Marett, C., legal rights to glaciers, xii. 469
— on the retreat of Swiss glaciers, viii. 275
— travelling in Switzerland half a century ago, xi. 474
Mason, T., ascent of Snæfell Jökull, v. 38
Mathews, C. E., accident on the Matterhorn, ix. 372
— Alpine obituary, the, xi. 78
— ascent of the Matterhorn from the south side, v. 259
— climbing with one guide, xi. 100
— Col de Trélatête, the, ii. 285
— congress of Alpine clubs at Geneva, ix. 333
— congress of Alpine clubs at Paris in 1878, ix. 154
— growth of mountaineering, the, x. 251
— Jägerhorn and the Lyskamm from Gressonay, the, iv. 65
— Weisshorn, the, i. 44
Mathews, W., Alps of the Tarentaise, the, P. iii. 339
— ascent of Mont Pourri, i. 112
— ascent of Monte Viso, P. iii. 147
— building of the Alps, the, xiii. 314
— climbing with one guide, xi. 100
— Col de Lys, the, P. ii. 359
— Col des Jumeaux (Felikjoch), P. ii. 397
— Croz fund, the, ii. 422
— determination of heights by means of the barometer, ii. 33, 63, 123
— explorations round the foot of Monte Viso, P. iii. 129
— French and English boiling points, ii. 46
— Grande Casse, the, viii. 225
— Grandes Rousses of Dauphiné, the, i. 294
— Moseley's theory of glacier motion, iv. 411
— mountains of Bagnes, with the ascents of the Vélan, Combin, &c., P. i. 76
— on the comparison between the metrical and English readings in double-scale barometers, i. 441
Mathews, W., on the Comte de St. Robert's method of measuring heights by means of the barometer, iv. 94
— on the sympeziometer and aneroid barometer, ii. 397
— St. Robert's hypsologista, iii. 209
Maude, G. E., circular rainbows, xii. 172
Maude, W., Mont Blanc by the Glacier du Dôme, xv. 554
Maund, J. O., Aiguille Verte from the Argentière Glacier, viii. 289
— Gross Lauteraarhorn from the west, xi. 27
— mountain misadventures, vii. 409
— new route across the Bietschhorn, x. 20
— winter trip to Sardinia, a, viii. 121
Mennell, H. T., Flüh Pass, v. 144
Meurer, J., first ascent of the Pala di San Martino, ix. 165
— hut on the Gross Glockner, ix. 238
— Königsspitze from the Sulden Grat, ix. 167
— sketches from the Dolomites, xiii. 13
Michell, J. W. A., exploration of the Sikkim Himalaya, xv. 111
— twenty years' climbing in the Himalaya, xi. 203
Middlemore, T., Alpine dangers, vii. 402
— Col des Grandes Jorasses, the, vii. 225
— expeditions from the Tschierva Glacier, viii. 198
Mills, F C., Grand Paradis, the, xiv. 517
Milman, A., Col des Grandes Jorasses, ii. 114
— from the head of the Glacier de Miage to Contamines by the Col 'dit infranchissable,' v. 277
— Lauteraar Sattel, the, i. 63
— Pontresina to Chiesa, P. ii. 131
Moore, A. W., Aiguille de Trélatête, v. 143
— ascent of Mont Blanc from the Glacier de la Brenva, ii. 369
— ascent of the Viescherhorn, i. 236
— attempt to ascend the Lyskamm from the west, i. 86
— from Simplon to Saas by the Gamserjoch, i. 140

Digitized by Google

Moore, A. W., Gabelhorn, the, ii. 222
— Grindelwald in winter, iii. 207
— Jakob Anderegg burnt out, vi. 316
— Mönch and Jungfrau from the Wengern Alp, vii. 294
— Moming Pass, the, ii, 191
— Ortler Spitze, the, i. 46
— Tödi and Adula Gebirge, the, iii. 153
— Turtman Thal to the Einfisch Thal by the Pas de Forcletta, i. 203
— variations on the high level route, v. 309
— winter expeditions in the Alps, iv. 309; v. 62
— Winterjoch, v. 143
— winter tour in the Dolomites, ix. 307
Morse, G. H., Finsteraarhorn by the south arête, xiii. 422
Morsehead, F., circular rainbows, xii. 172
Moseley, Canon, observations on Mr. Mathews's account of his theory of glacier motion, v. 40
Muddock, J. E., letter from, xi. 127
Mummery, A. F., first ascent of the Matterhorn by the Zmutt arête, ix. 458
Murray-Browne, T. L., Glittertind and Uledalstind, the, v. 154

Napier, Hon. G., ascent of Demavend, viii. 256
Nichols, R. C., Alpine map of Switzerland, the, ii. 350
— Alpine slang, vi. 253
— cloud streamers in the Alps, i. 208
— etymology of 'avalanche,' vi. 99
— excursions in the Graians: 'The Grand Apparei,' ii. 18; 'The Ste Hélène,' ii. 387; 'The Albaron,' iii. 104
— Gamchi Glacier, the, ii. 224
— glaciers and meteorology, ix. 299
— mountains, rain and snow, vi. 275
— passage of the Col de la Tempe and the Col de l'Echauda, P. iii. 183
Noel, Hon. R., Renferjoch, the, iv. 255
Norman, H. J., Binnenthal, the, xi. 481
Norman-Neruda, L., Monte Giralba, xv. 441
— some new ascents in the Bernina group, xv. 461
Nugee, F. E., descent of the Aletschhorn on the north, xi. 415

Oliver, J. R., trips in the Himalayas, iv. 73
Ormsby, J., ascent of the Grivola, P. iii. 318
— Mont Perdu, iv. 337
— mountains of Spain, the, vi. 57, 149
— Sierra Nevada, the, iii. 1
Osborn, Sir R. G., the 'Couronne' at An der Lenk, vi. 54

Packe, C., botanical notes from the Dolomites, vii. 167
— discrepancy between French and English barometric standards, i. 315
— electricity in the Pyrenees, i. 202
— English and metrical barometric standards, ii. 46
— flora of the Pyrenees, ii. 47
— Papaver Alpinum, the, v. 76
— Pelmo, the, vi. 367
— Portillon d'Oo and Pic des Posets, P. iii. 101
— reminiscences of the Pyrenees, xii. 17
— saxifrages, vii. 364; viii. 40
— Sierra Nevada, the, iv. 113
— table of the heights of the peaks and passes of the Pyrenees, P. iii. 538
— Vignemale, the, i. 131
Passingham, G. A., Weisshorn from Zinal, the, ix. 427
Paulson, —, ascent of Orœfa Jökull, P. ii. 123
Peacock, D. R., travel in the Caucasus, xv. 372
Pearson, A. A., Cima di Jazzi from Macugnaga, viii. 51
Pendlebury, R., gleanings from Cogne. The Grivola and Tour de St. Pierre, ix. 72
— Schreckhorn from the Lauteraar Sattel, the, vii. 34
— Zillerthaler Ferner, the Thurnerkamp, vii. 232

Digitized by Google

Pendlebury, W. M., Grande Aiguille, la, vii. 148
Penhall, W., Matterhorn from the Zmutt Glacier, the, ix. 449
Philippe, M., Chamonix guides, vi. 427
Pilkington, C., ascent of the Jungfrau from the Wengern Alp without guides, x. 386
— ascent of the Meije without guides, ix. 411
— Black Coolins, the, xiii. 433
— Scottish Mountaineering Club, xv. 79
Pilkington, C. H., Col de Mont Brulè, i. 63
— Val des Allues, ii. 312
Pollock, Sir F., companion of Albert Smith, a, xv. 371
— library of the Alpine Club, the, xii. 425
Powell, G. H., Piz d'Albana, the, xiii. 184
Powell, W. W. R., death of Joseph Brantschen, the, ix. 379
Pratt-Barlow, F. T., ascent of the Monte della Disgrazia from Chiareggio, viii. 20
— Grand Paradis from Cogne, vii. 1
Prothero, F. E., Clariden Grat, the, i. 95
Prothero, G. W., Dom from the Domjoch, the, xv. 110
Purtscheller, L., Meije by the Eastern Ridge, the, xii. 460

R. H., Arolla, xii. 265
Rabot, C., attempt to ascend Monte Rosa by the Italian side in the eighteenth century, ix. 496
— passes in the French Alps in the eighteenth century, x. 275
Ramsay, A. C., ancient glaciers of Switzerland and North Wales, P. i. 400
— note on drift, P. i. 515
Robarts, C. H., pass between Piz Bernina and Piz Morteratsch, viii. 160
Rogers, J. D., some ascents in the Langkofel group of the Dolomites, xv. 365
Rumbold, Sir H., late disastrous fire at Meiringen, the, ix. 234
Russell, Count H., mountains and mountaineering, v. 241
St. Robert, Comte P. de, a new method of measuring heights, vi. 414; vii. 204
Schiess, H., and Lüscher, C., death of Joseph Brantschen on the Matterhorn, the, ix. 374
Schütz Wilson, H., Melchior Anderegg as a sculptor, vi. 315
Schulz, Dr., accident on the Meije, the, xii. 399
Schuster, F. O., Zermatt guides, xiii. 177
Schwatka, F., mountaineering in Alaska, xiii. 89
Schweitzer, E., Breithorn, the, P. ii. 343
— on regelation, ii. 307
Sclater, P. L., Krukeli Pass, the vi. 101
Scriven, G., Dolomites of San Martino di Castrozza, xiv. 291
— prevention of snow burning and blistering, xiii. 389
Sella, A., Aiguille du Géant, xi. 72
Seton-Karr, H. W., attempt on Monte Rotondo in winter, xi. 412
— lost on the Bernina, ix. 162
— notes from Campfer, xi. 370
Siber-Gysi, G., Monte della Disgrazia, v. 48
Simpson, W., ascent of Sikaram, ix. 288
— Gangootre, a journey in the Himalaya to the 'Cow's Mouth,' vi. 385
— Himalayan routes, vii. 259
— snow blindness, xiii. 477
— Suffaid Koh range and the Jellalabad region, x. 12
Slingsby, W. C., Aiguilles Rouges d'Arolla, a day on the, xiv. 84
— circular rainbows, xii. 272
— Lake district, the, xiv. 169
— mountaineering in the Maderanerthal, xiii. 133
— mountaineering in Norway, xi. 142
— new ascent of Scafell, a, xiii. 93
— night adventure on the Dent Blanche, a, xv. 404
— notes on a campaign in Norway, xii. 267
Smith, C. M., walking tour through the Himalaya, a, iii. 52
Sowerby, J., from Gadmen to Gut-

Digitized by Google

tannen, by the Trift Thal and Furtwang Pass, i. 383
Sowerby, J., Grosse Windgelle, the, vii. 266
— round the Maderanerthal, vi. 321
— tour in the Alps in 1800, a, vii. 431
— Wolfendorn Kind, the, xiii. 479
Spence, J. M., peak of Naiguatá, Venezuela, the, vi. 101
Stallard, G., Grosshorn, the, xv. 443
Starr, R., Hoch Wild Spitze, the, ix. 494
— Oetzthaler Ferner in 1875, the, ix. 31
Stephen, L., accident on Mont Blanc in 1870, v. 188
— Alpine accidents in 1887, xiii. 467
— Alpine dangers, ii. 273; vii. 311, 404
— ascent of the Rothhorn, ii. 67
— ascent of the Schreckhorn, P. iii. 3
— best form of alpenstock for the high Alps, the, i. 253
— Bietschhorn and Blümlis Alp, the, i. 353
— Eastern Carpathians, the, iii. 25
— effect of a rarefied atmosphere on climbers, viii. 281
— Jungfraujoch and the Viescherjoch, the, i. 97
— new pass in the chain of Mont Blanc, a, vi. 351
— passage of the Eigerjoch, P. iii. 15
— peaks of Primiero, the, iv. 385
— recent accidents in the Alps (1869), iv. 373
— round Mont Blanc, v. 289
— Weisshorn, the, i. 39
Stevens, G. W., falling stones on the Schreckhorn, viii. 400
Still, S. F., and Ruck, E. W., lost on the Strahleck, iv. 39
Stocker, A. H., Kahlamba Mountains, the, xiv. 397
— Old Man of Skye, the, xiii. 265
Stogdon, J., accident on Mont Blanc, v. 193
— English lakes in winter, the, v. 34
Stratton, F., Isenfluh and the Sausthal, xv. 555
Stutfield, H. M., Alpujarras and the Sierras Nevadas, xiii. 80
Tanner, H. C. B., great peaks of the Himalaya, the, xii. 438
— tour of Kánchanjangá, xiii. 28
Taylor, C., Monte Rosa from Macugnaga, vi. 232
Taylor, F., circular rainbows, xii. 271
Thielmann, M. von, ascent of Cotopaxi, viii. 448
Thomas, P. W., Aiguille du Chardonnet, xi. 262
— death of Joseph Brantschen, the, ix. 378
— Dom from the Kien Glacier, the, xv. 222
— mountaineering in Southern Colorado, xv. 480
Topham, H. W., expedition to Mount St. Elias, Alaska, an, xiv. 345
— few notes about the Selkirks, a, xv. 418
— Selkirk range, the, xiv. 58
Tozer, H. F., ascent of Mount Argæus, ix. 462
Trotter, C., Mischabeljoch, the, i. 125
— Mönch, the, i. 82
Tucker, C. C., Alpine and Arctic travel, viii. 153
— Caucasus, the, iv. 241
— Cima della Vezzana, the, vii. 57
— Gross Glockner, the, vi. 151
— Pania della Croce, la, vii. 214
— Rosengarten Gebirge, the, vii. 345; ix. 238
— week in the Graians in 1867, a, vi. 83, 105
Tuckett, F. F., across the Kabyle Highlands, xiv. 73
— Alpine bibliography, ii. 159, 269, 426; iv. 62, 239; v. 378; vi. 438; vii. 445
— Alpine Club, Swiss Inundation fund, the, iv. 183
— ascent of the Aletschhorn, P. iii. 33
— ascent of Taygetus, viii. 316
— Col de la Reuse de l'Arolla, P. ii. 287
— Col Vicentino, Bosco del Consiglio, and Monte Cavallo, the, vi. 124
— contributions to Alpine hypsometry, P. iii. 484
— contributions to the topography of the Ortler and Lombard Alps, i. 385

Digitized by Google

Tuckett, F. F., determination of heights by the thermo-barometer, v. 218
— dirt bands of the Lower Grindelwald Glacier, P. iii. 455
— early ascents of the Ortler Spitze, ii. 301
— Elbruz and Kazbek, iv. 166
— excursions in the Graian Alps, v. 171
— exploration in the Alps of Dauphiné, i. 145
— explorations in the Göschenen Thal, ii. 92
— guides at Pontresina, the, i. 206
— Heim, Dr., on glaciers and glacier theories, xii. 219, 300
— hunting grounds of Victor Emmanuel, P. iii. 259
— hypsometry of Greece, viii. 434
— Lysjoch and Zumstein Spitze fifty years ago, the, v. 136
— mediæval routes across the Eastern Alps, vi. 434
— Monte della Disgrazia, v. 46
— mountaineering in the Tyrol, iii. 217
— narrow escape from lightning on the Roche Melon, vii. 191
— night adventure in the Suldenthal, a, ii. 341
— night bivouac on the Grivola, a, P. iii. 292
— night on the summit of Monte Viso, a, i. 26
— notes on Corsica, xi. 449
— on the amount of ozone at different altitudes, P. iii. 445
— on the recent retreat of the Lower Grindelwald Glacier, vi. 30
— Pizzo d'Uccello and the Solco d'Equi, the, xi. 324
— race for life, a, v. 337
— round Monte Cinto, with notes on some excursions in the N.W. of Corsica, x. 314
— Swiss 'Alpenclub,' the, iv. 147, 203
— tables of the heights of the Alpine peaks and passes, P. iii. 503
Tuckett, F. F., and Kennedy, T. S., ice-axes, ii. 217
Tyndall, J., accident on the Piz Morteratsch, i. 437
— day among the séracs of the Glacier du Géant, P. i. 39
Tyndall, J., Marjëlen See, the, vi. 100
Tyrwhitt, R. St. J., ascent of Om Shaumer, desert of Mount Sinai, i. 205
— expedition to Hammerfest, an, iii. 76

Utterson-Kelso, W. E., Dent de Morcles, xi. 370
— Drei Zinnen and Marmarole, the, vi. 344
— round Cortina, vi. 199
— Saas—Dolomites, xv. 79

Wainewright, B., Monte di Scerscen from the Scerscen Glacier, xiii. 301
Walker, F., Andeer to Vico Soprano, i. 256
Walker, H., ascent of Piz Roseg, iii. 19
Wall, C. G., Cinque Torri, the, x. 180
Wall, T. W., ascent of Lliwedd by north face, xi. 239
Wallroth, F. A., Hinchliff memorial, the, xi. 407
Walton, E., Gouffre de Buserailles, ii. 271
Watson, C. E. B., Engadine in winter, the, x. 31
— Piz Bernina in winter, ix. 492
Watson, P., traces of glaciers in North America, x. 109
Watson, R. S., Balfrinhorn, the, i. 188
— electrical adventures, i. 142
Watts, W. L., ascent of Myrdals Jökull, vii. 179
Wentworth, Lord, Aiguille de Peuteret and Jumeaux of Valtournanche, ix. 1
Wethered, F. T., accident on the Bondasca Glacier, xiii. 471
— Adler at Grindelwald, the, viii. 400
— Alpine inns and huts, x. 487
— Alpine query, an, xv. 372
— ascent of the Täschhorn from the Fee Glacier, ix. 200
— Breilhorn (Furggengrat), x. 423
— Carrel, J. A., and the Gorrets in 1865 and 1890, xv. 332
— circular rainbows, xii. 273

Digitized by Google

Wethered, F. T., Col de la Dent Blanche, ix. 172
— Domjoch and Lysjoch, the, ix. 309
— first ascent of the Mönch, xiii. 265
— Gross Schreckhorn and Gross Lauteraarhorn, viii. 52
— hut on the Col du Géant, viii. 52
— mountain huts, vii. 337
— mountain huts in the chain of Mont Blanc, ix. 235
— Oberland in April, the, xiii. 331
— raised plans of the Alps, xiv. 171
— records left on mountain tops, xii. 467
— ten days' hard work in the Zermatt district, vii. 388
— traverses in the Eastern Graians, viii. 79
Whately, A. P., Bistenen Pass, the, ii. 426
Whitehouse, H. R., ascent of Iztaccihuatl, xv. 268
— note on the heights of the Mexican peaks, xv. 271
— recent ascent of Popocatepetl, a, xiv. 403
Whitwell, E. R., ascent of the Cimon della Pala, v. 111
— ascents of the Popena and Gaisl or Rothwand, vi. 398
— first ascents of the Aiguille de Blaitière and Dent Blanche from Zermatt, vii. 422
Whitwell, T., meteorological note, i. 444
Whymper, E., ascent of Mont Pelvoux, P. iii. 223
— ascent of the Pointe des Ecrins, ii. 225
— camping out, ii. 1
— expeditions among the Great Andes of Ecuador, x. 49, 113, 185, 241, 369, 425, 498
— fatal accident on the Matterhorn, the, ii. 148
— Greenland, v. 1
— note on an alleged ascent of Chimborazo in 1856, x. 226
— some notes on Greenland and the Greenlanders, vi. 161, 209
— Tyndall's, Professor, attempt on the Matterhorn in 1862, v. 329
Wicks, J. H., two peaks and a centre, xv. 333
Wigram, W., dark colour of sky in the High Alps, i. 48
— ice grotto, an, i. 144
— intersection of lines of bedding of névé by blue veins, i. 46
Williams, A., excursions round Pinzolo, ix. 304
Williams, F. G. H., Dos di Sabione, the, viii. 164
Williams, H. S., Maritime Alps, the, ix. 383
Williams, W., Monte Rosso di Scerscen, xii. 177
Willink, H. G., Alpine sketching, xii. 361
Wills, A., Chamonix guides and the death on the Mer de Glace, vi. 307
— destruction of the flora of the Alps, xii. 358
— excursions in the neighbourhood of Sixt, ii. 49
— passage of the Fenêtre de Salèna, the, P. i. 1
Wilson, C., circular rainbows, xii. 174
— climbing in Norway, xiii. 144
— Highlands in winter, the, xi. 480
Winkworth, S., Col d'Argentière, the, P. ii. 231
— guides at Pontresina, the, i. 205
Wood, J. T. H., two new ascents at San Martino, xv. 368
Woolley, H., ascent of Dychtau, the, xv. 173
— explorations and ascents in the Caucasus in 1889, xiv. 445
Wüste, A., circular rainbows, xii. 174

Yeld, G., Alpine inns and huts, x. 487
— excursions in the South-western Graians, ix. 474
— Grande Serre, the, xi. 480
— Levanna, the, ix. 168
— scrambles in the Eastern Graians, xi. 14 ; xii. 77, 509 ; xiv. 281
Yule, Col., Hannibal's vinegar, xi. 481

Zsigmondy, O., accident on the Meije, the, xii. 395

Digitized by Google

Section II.—Maps and Illustrations

Maps

Adai Choch group, xii. 493; xiv. 453
Apparei Grand and Ste Hélène, ii. 390
Argentière, Col d', P. ii. 227

Bagnes, mountains of, P. i. 77
Bernina, glaciers of the, i. 339
— Piz, P. ii. 131
Blanc, Mont, P. i. 1
— — east end of chain of, i. 274
— — new ways to, xii. 148
— — west side, P. ii. 189
Brenta group, xi. 309
Bristenstock, P. i. 370

Caucasus, central group, xiv. 24
— chain of the, xiii. 353
Combin, Grand, P. ii. 273
Cook, Mount, xi. 57

Diablerets district, P. i. 327
Disgrazia, Monte della, country round, i. 4
Dychtau, xv. 33

Formazza, Val, mountains of, ix. 57

Glarus, Alps of, P. i. 371
Glockner, Gross, P. ii. 425
Godemar, Val, mountains at the head of, x. 138
Goeschenen Thal, head of, ii. 94
Graians, P. iii. 259
— eastern, xii. 509
— southern, iii. 112
Grisanche, Rhemes, and Savaranche, valleys of, ii. 32

Hannibal's Passage, xiii. 38

Iceland, South-East, P. ii. 3

Kahlamba Mountains, xiv. 402
Koshtantau group, xiii. 258

Maderanerthal, vi. 321
Maglich and Volujak, xiv. 430
Maritime Alps, ix. 410
Meije, the, and the Grande Ruine, ix. 293; x. 264

Nevada, Sierra, iii. 16; iv. 113
New Zealand, Southern Alps, xi. 1

Oberland, the, P. i. 235
— glaciers of, P. iii. 3
Ortler group, i. 422

Paradis, Grand, vii. 8
Pelvoux, Mont, P. iii. 181
Pourri, Mont, i. 114
Pyrenees, south of Luchon, P. iii. 101

Rosa, Monte, i. 50
— — district, P. ii. 343
— — range of, P. i. 155
Rousses, Grandes, i. 295

Saasgrat and the Fletschhorn, P. i. 207
St. Elias, Mount, xiv. 354
Sallanches, neighbourhood of, xii. 16
Selle, Col de la, P. iii. 221
Sikkim-Thibet frontier, xv. 112
Snowdon, ancient glaciers of, P. i. 419

Uri Alps, P. iii. 73

Valpelline, Col de la, P. ii. 307
Viso, Monte, P. iii. 129

Zillerthaler Alpen, vii. 281
Zinal Glacier, P. i. 127

Digitized by Google

Illustrations.

Aar, Glacier, beyond the Kirchet, P. i. 411
— gorge of the, Roches Moutonnées, P. i. 411
Abyssinian Saint, iv. 173
Adai Choch group, xv. 520
— — group from Goribolo, xiii. 354
Ailefroide, Pic de l', P. iii. 209
— Val de l', glaciers of, P. iii. 194
Aletschhorn from the Eggischhorn, P. iii. 37
Alisdair, Sgurr, xv. 429
Alpine tent, ii. 6
Anderegg, J., xii. 366
Anterne, Lac d', and the Chaine des Fys, ii. 49
Aragon, adventure with brigands, v. 241
Arolla, Pigne d', panorama from, viii. (frontispiece)
Axe-heads and knots, i. 320
Azerou Taletat, xiv. 73

Ball, J., xv. (frontispiece)
Balmenhorn, the, xii. 70
Bavona, Val, from the Capella di Monte, x. 56
Bérarde, la, P. iii. 198
Bernina, crevasse on, P. ii. (frontispiece)
— group, from Pizzo Scalino, ii. 352
— Piz, xv. 461
Besso, Lo, P. i. 147
Bezingi Glacier, xiii. 230
Blanc, Mont, from Combloux, xii. (frontispiece)
— — from the Croix de Feuillette, P. i. 75
— — from the Jardin, P. i. 48
— — south side, viii. 409
— — west face, ii. 97
Bohren, P., xii. 364
Bordjula, xv. 517, 518
Bouquetins, Dents des, from the west, xiii. 529
Boval, view from, P. ii. 159
Brenta group from Monte Gazza, xi. 323
Buet, snow cornice, xii. 360
'But what is this?' v. 234

Campitello Dolomites, xv. 366, 367
Capucin rock, P. i. 45
Caucasian chain, the, above the Dychsu Glacier, xiii. 373
Ceja Glacier, xii. 217
Cevedale, Monte, view from, ii. 352
Chamois, P. ii. 444
Chardonnet, Aiguille du, incident on, iv. 146
Charmoz, Aiguille des, x. 397
Chimborazo, x. 369
— plan of camp, x. 433
Cillorigo, gorge of the, vi. 57
Colon, Mont, vi. (frontispiece)
Combin, Grand, from the Glacier de Corbassière, P. i. 123
Cook, Mount, xi. 129
Corbassière, from the chalets of, P. i. 90
Cotopaxi, x. 113
— eruption of, x. 436
Cuillin hills, the, xiii. 433
Cwm Glas Moraine, P. i. 429
— Graianog, P. i. 452

Dard, natural pillars in the gorge of the, P. ii. 262
Dead chamois, iv. 139
Derlwyn, Bloc Perché, P. i. 421
Diagram of knot, ii. 96
Diagrams of a marroon, vi. 283; sketching materials, xii. 368
Disgrazia, Monte della, from Cresta Güzza, i. 351
— from the Sella Pass, xi. 245
Dom, the, from the Eggischhorn, P. i. 195
Donkin, W. F. xiv. 309
Dopendikang, xv. 116
Dru, Aiguille du, ix. 185
Dychtau, xv. 173, 176, 190
— from the Doumala Glacier, xiv. 10
— and the Tutuin Glacier, xv. 37
— and the Ullu-auz Glacier, xv. 37

Eagle's nest, the, ii. 52
Ecrins, Pointe des, from the west, x. 221
— — from the Col du Galibier, ii. 225
— — from the Col du Glacier Blanc, i. 176

Digitized by Google

Ecrins, Pointe des, from the slopes N.W. of les Etages, i. 168
Eiger, outline of the, v. 337
Eigerjoch, from the Wengern Alp, P. iii. (frontispiece)
Eivettes, Glacier des, from the, ii. 79
Elbruz, vii. 113
— from Terskol, xiv. 57

Fastening for tent poles, ii. 7
Finsteraarhorn, from the Oberaarhorn, viii. 263
— from the S.E., P. i. (frontispiece)

Gangootre peak, vi. 385
Géant, Aiguille du, xi. 72
— — from the north-west, v. 289
Glissading, v. 234
Glockner, Gross, from Heiligenblut, P. ii. 427
Goribolo Pass, view from, xiii. 373
Grandes Dents, the, viii. 15
Grave, la, cascade near, P. iii. 232
Grivola from the Col d'Arbole, P. iii. 268
— from below the Col de Nivolet, P. iii. 286
— from the east, P. iii. 323
— from the south-west, P. iii. 318
— summit of, P. iii. 309
Gvalda Glacier, range south of, xiii. 504

Herdu Breid, P. ii. 96
Hérens, Dent d', from the Valpelline, i. 209
Horningdalsrokken, iv. 28
Horungtinderne, iv. 32
Hut, interior of, xii. 378
Hver Fjall, P. ii. 102

Ice-axe, new form of, i. 255
Ice pinnacles, P. i. 44
Imponjwana, the, xiv. 397
Iseran, Col d', from the, ii. 79
Iztaccihuatl, xv. 268
— summit of, xv. 269

'Jacob calls on us to follow,' ii. 321
Jakobshavn ice-stream, fragment of the, v. (frontispiece)
Jelu, mountains of, xiii. 293
Jungfrau from the Steinberg Alp, ii. 161

Kánchanjangá range, iv. 73; xii. 99
Karagam Glacier, xiv. 57
Kirchet, the plain above, as a lake, P. i. 412
Kláfr swing bridge, P. ii. 86
Knot, diagram of, ii. 96
Koshtantau, view from below, xiii. 244

Láma Yuru, iii. 148
Lang Jökull, P. ii. 115
Last bivouac, the, xv. 26
Latpar Pass, view from, xiii. 371
Leila, view from, xv. 237
Level, a new, ii. 44
Llanberis Pass, P. i. 419
— — Bloc Perché, P. i. 425
— — episode in the history of, an, P. i. 469
— — Roches Moutonnées, P. i. 422
— — section of, P. i. 445
Llyn Idwal, section across moraines, P. i. 454
— Llydaw, Roches Moutonnées, &c., P. i. 440
Lucerne and Pilatus, xii. 346
Luseney, Bec de, iii. 49
Lyskamm from the Gornergrat, P. ii. 383
— from Gressonay, P. ii. 359

Maen Bras, P. i. 460
Maglich, xiv. 417
— chain of, xiv. 423
Maladetta from the Antenac, P. iii. 122
Malte Brun range, xi. 141
Man and Monster, iii. 204
Maritime Alps, the, from Ile St. Honorat, ix. 385
Marroon, diagram of, vi. 283
Martinsloch and the Segnes Pass, P. i. 390
Matterhorn, cannonade on the, v. 237
— from Breuil, iv. 187
— from the Col de la Dent Blanche, P. ii. 337
— from the Dent d'Hérens, i. 220
— from the N.E., iv. 189

Digitized by Google

Matterhorn from St. Luc, P. i. 154
— from the Stockje, P. ii. 337; ix. 449
— hut on Zermatt face, ix. 371
— 'my first camp on,' ii. (frontispiece)
Meije, P. iii. 217; viii. 177
— from the Châteleret, ix. 418
— from the Vallon des Etançons, ix. 121
— W. peak, vii. 409
Miage, Col de, P. ii. 211
Midi, Aiguille du, descent of, v. 145
Mörkfos, v. 49
Mountaineers at work, xv. 474, 476, 479

NADELGRAT from the summit of the Dom, x. 332
— from the Ulrichshorn, xiii. 521
Naksagar Pass, view from, xiii. 371
Naltshik, the snows from, xiii. 354
Narrow arête, a, ii. 369
Nepal peaks, xii. 459
Nevada, Sierra, from the Torre de la Vela in the Alhambra, iii. (frontispiece)
Noaschetta Glacier, xiv. 281
Noon Coon peaks, one of the, iv. 177

Oo, Port d', P. iii. 106
Oroefa Jökull, P. ii. 50, 67
Ortler group, i. 389, 401, 409
Oskjugjá, the, viii. 173

PALA CIMON della and Cima di Vezzana, v. 113; vii. 57
— — — final kamm, v. 113
Paradis, Grand, from the Cramont, P. iii. 411
— group, vi. 110
Paul, Mount, viii. 169
Pelmo, on the, vi. 257
Pelvoux, Mont, P. iii. 247; v. 234
— — buttress of, P. iii. 249
— — from above Guillestre, i. 150
— — from above la Bessée, P. iii. 223
— — from the Vallon d'Ailefroide, P. iii. 236
— — group, P. iii. 227
— — pinnacles of, P. iii. 193
Peñamellera, Pico de, vi. 69
Perdu, Mont, from the Lac du Col, iv. 337
Peuteret, Aiguille de, ix. 1
Photographic apparatus, iv. 407
Pieska Jaur, camp by the, vii. 169
Pietra, la, castle of, iv. 385
Popera group, xv. 442
Presanella, from Monte Tonale, ix. 306

QUITO, Great Quebrada at, the, x. 241

RAFTESUND LOFOTEN, iii. 82
Raud-Holt, P. ii. 27
Rope, wrong way to use, v. 234
Rosa, Monte, from the Gornergrat, P. ii. 416
— — and the Weissthor Ridge, from the Pizzo Bianco, xi. 193
Roseg, Piz, xv. 471
Ruitor, from the, ii. 79
— from Aosta, P. iii. 383
Russian furnace, ii. 10

ST. CHRISTOPHE, mountains of, P. iii. 203
— Elias, Mount, xiv. 348
— Pierre, Grand, Tour du, vi. 105
Sais, Col de, P. iii. 189
Sallanches, spire of, xii. 3
Sass Maor, xiv. 299
Sasso d'Italia, Gran, from Isola, viii. 353
Sauvegarde, Pic de, P. iii. 116
Schreckhorn, P. i. 241; xi. 437
— from Grindelwald Gl., P. iii. 4
Schwarze Glacier, ascent of, P. i. 176
— — ice pinnacles, P. i. 178, 179
Screw propeller canoe amongst icebergs, vi. 209
Sketching materials, xii. 368
Sleeping bag, traveller in, ii. 3
Snowy chain, the, from above Gurschavi, xii. 317
Sonadon, Col du, P. ii. 246
Start in the dark, a, ii. 273
Storm over an Alpine valley, xii. 346
Surts-Hellir, P. ii. 112
— lava field, P. ii. 110

TELEMETER, xv. 357
Tent poles, fastening for, ii. 7

Digitized by Google

Tetnuld, xiv. (frontispiece)
Thierberg, summit of, P. iii. 90
Tour Noire, Col de la, i. 280
Tragone, camp at, iv. 289
Traveller in his bag, ii. 3
Trélatête, Col de, ii. 290
Trift Glacier, xii. 360
— Pass from the Gornergrat, P. i. 128
Triftenjoch and Rhone Glacier, P. iii. 96
Tschingel cave, the, iv. 129
Tsforga, view from, xv. 516

UMENAK, island of, vi. 161
Ushba, xiii. 514; from the Adyrsu Pass, xiii. 354

VAAGEKALLEN, iv. 24
Valpelline, head of, P. ii. 317
Verte, Aiguille, incidents on, iv. 141, 142
Vezzana Cima, di, and Cimon della Pala, v. 113; vii. 57
Viejo, El, craters of, i. 232
Villard, view from, P. i. 342
Viso, Monte, from the N., P. iii. 129
— — from the N.E., x. 453
— — from Turin, P. iii. 148
— — pinnacles of, P. iii. 167
— — summit of, P. iii. 157

WINDJOCH, from the, xiii. 164
Wrong way to use a rope, the, v. 234

Digitized by Google

SECTION III.—SPECIAL DISTRICTS.

The numbers before the headings refer to the divisions on the map.

1. MARITIME ALPS.—*Main chain from Col d'Altare to Col de l'Argentière, S. of Col di Tenda.*
Agel, Mont, ix. 383
Argentera, Punta dell', xv. 496
Books on, xii. 197
Inns, ix. 497
Maritime Alps, ix. 137, 385, (map) 410
— — from Ile St. Honorat (illustration), ix. 385
New expeditions in 1878, ix. 89
— — in 1879, ix. 336
Notes on, x. 45; xi. 228; xiii. 177
Table of heights, ix. 410
Topographical note, ix. 409
Wolf hunt, a, vi. 174

2. COTTIAN ALPS.—*From Col de l'Argentière to the Mont Cenis, E. of the Durance Valley and Col du Galibier.*
Agnello, Col de l', i. 148
Besimauda, xi. 302
Books on, viii. 471; ix. 446; x. 406; xi. 125, 237; xii. 357; xiv. 339
Chambeyron district, x. 123
Diary of the late A. T. Malkin, xv. 44
Hannibal, pass of, xiii. 28, (map) 38
Inns, ix. 497
Italian Alps, notes on, xi. 369
New expeditions in 1865, ii. 207
— — in 1873, vi. 292
— — in 1875, vii. 316
— — in 1879, ix. 346
— — in 1881, x. 348
— — in 1882, xi. 111
— — in 1883, xi 349
— — in 1884, xii. 110
— — in 1885, xii. 409
— — in 1888, xiv. 143
— — in 1890, xv. 290
Pelvo d'Elva, xv. 330
San Chiaffredo, x. 481
Viso, Monte, ascent of, P. iii. 147
— — district, x. 453; (map) P. iii. 129
— — explorations round, P. iii. 129
Viso, Monte, from the N. (illustration), P. iii. 129
— — from the N.E. (illustration), x. 453
— — from Turin (illustration), P. iii. 148
— — night on the summit, a, i. 26
— — pinnacles of (illustration), P. iii. 167
— — summit of (illustration), P. iii. 157
— — table of heights, P. iii. 177
— — without guides, ix. 222

3. DAUPHINÉ ALPS.—*W. of the Durance Valley and Col du Galibier.*
Aiguille, Grande, la, vii. 148
Ailefroide (illustration), P. iii. 209
— east peak, x. 278
— note on, viii. 114
— Val de l', Glaciers of (illustration), P. iii 194
Ancient glacier passes, xiii. 538
Arve, Aiguilles d', viii. 57
Aupillous, Pic des, accident on, xiii. 396
Bérarde, la (illustration), P. iii. 198
— inn at, xiii. 184
— and the Société des Touristes, xi. 411
Books on, x. 168, 170, 368; xii. 189, 192; xiii. 276, 277, 285; xiv. 272; xv. 84, 230
Carle, Pré de Madame, xiii. 270
Casse Déserte, Col de la, note on, vi. 365
Charrière, Brêche de la, viii. 164
— — note on, vi. 365
Dauphiné in 1873, vii. 80
— in 1887, note on, xiii. 460
— in 1888, xiv. 372
Ecrins, Pointe des (illustrations), i. 168, 176; ii. 225
— — ascent of, ii. 225
— — from the S., x. 219
— — from the W. (illustrations), x. 221
Excursion in, i. 66
— in 1878, ix. 175
Expeditions in 1870, v. 128

Digitized by Google

Explorations in, i. 145; vii. 136
French Dolomites, xiv. 211
Godemar, Val (map), x. 138
Grave, la, cascade near (illustration), P. iii. 232
Guide du Haut Dauphiné, maps of, xiv. 403
Meije, the, viii. 177; (illustrations) P. iii. 217; viii. 177; ix. 121; (maps) ix. 293; x. 264
— accident on the, xii. 395
— ascent of the, ix. 121; xiv. 326
— by E. ridge, xii. 460
— from La Grave, xii. 343, 391
— from the Châteleret (illustration), ix. 418
— range of the, i. 302
— W. peak (illustration), vii. 409
— without guides, ix. 411
Meije and Grande Ruine (topography), ix. 293
Mountain misadventures, vii. 409
Mountaineering in, without guides, ix. 219; xii. 423
New expeditions in 1863, i. 137, 198
— — in 1864, i. 372, 429
— — in 1865, ii. 206
— — in 1873, vi. 288
— — in 1874, vii. 104, 150
— — in 1875, vii. 314
— — in 1876, viii. 97, 342
— — in 1877, viii. 328
— — in 1878, ix. 90
— — in 1879, ix. 354
— — in 1880, x. 82
— — in 1881, x. 345
— — in 1882, xi. 107
— — in 1883, xi. 346
— — in 1884, xii. 112
— — in 1885, xii. 410
— — in 1886, xiii. 117
— — in 1887, xiii. 400
— — in 1888, xiv. 145
— — in 1889, xiv. 479
— — in 1890, xv. 292
— — in 1891, xv. 541
New map of, ix. 296
Notes on, xii. 174
Olan, Pic d', xiii. 57
Passes in, x. 264
Pelvoux group (illustrations), P. iii. 227, 247; i. 150; v. 234; (sketch map) P. iii. 181
— Mont, ascent of, P. iii. 223
Pelvoux, Mont, buttress of (illustration), P. iii. 249
— — from above La Bessée (illustration), P. iii. 223
— — from Vallon d'Ailefroide (illustration), P. iii. 236
— — pinnacles of (illustration), P. iii. 193
Photographs of, xiv. 250
Rousses, Grandes, the, i. 294, (map) 295
St. Christophe, mountains of (illustration), P. iii. 203
— — table of heights of points near, P. iii. 214
— — Val de, and the Col de Sais, P. iii. 198
Sais, Col de (illustration), P. iii. 189
Salude, Tête du, x. 491
Selle, Col de la, P. iii. 215, (map) 221
Tempe, Col de la, P. iii. 183
Three new ascents in, x. 138
Winter expeditions in 1867, iv. 320
— — in 1883–4, xi. 411

4. Tarentaise Alps.—*N. of the Arc Valley and W. of Col d'Iseran and the Tignes Valley.*

Allues, Val des, ii. 312
Casse, Grande, note on, viii. 225
Excursions in 1878, ix. 175
Explorations in, in 1859 and 1860, P. iii. 339
Inns in, ix. 238
Maurienne, the, ii. 177
Midi de Peisey, Aiguille du, ix. 169
New expeditions in 1864, i. 373
— — in 1865, ii. 208
— — in 1874, vii. 150
— — in 1876, viii. 100
— — in 1878, ix. 97, 102
— — in 1883, xi. 365
— — in 1884, xii. 119
— — in 1886, xiii. 117
— — in 1887, xiii. 405
— — in 1889, xiv. 481
— — in 1890, xv. 295
Plantrin, Col de, ii. 391
Plassas, Rocher de, x. 491
Polset, Aiguille de, xii. 269
Pourri, Mont (map), i. 114
— — ascent of, i. 112
Winter expeditions, xii. 260

Digitized by Google

5. Graian Alps. — *From Mont Cenis to the Little St. Bernard, E. of Col d'Iseran, E. and N. of the Arc Valley.*
Along the frontier from the tunnel to the Levanna, xi. 333
Apparei, Grand, and Ste. Hélène (map), ii. 390
Bazel, Pointe de, and the Col de la Tsanteleina, xv. 154
Bianca, Punta, xv. 440
Books on, ix. 51, 54; x. 172, 173; xiii. 285
Broglio, Punta del, ascent of, xiv. 466
Cogne, gleanings from, viii. 300; ix. 72
— district, model of, v. 375
Collerin, Col du, accident on, iv. 61
Dard, natural pillars in the gorge of the (illustration), P. ii. 262
Diary of the late A. T. Malkin, xv. 126
Eivettes, Gl. des, from the (illustration), ii. 79
Excursions in, ii. 18, 387; iii. 104; v. 171; ix. 474
Expeditions in, vii. 211
Gailletta, Col de la, P. iii. 397
Graians (map), P. iii. 259
— Eastern (map), xii. 509
— Southern (map), iii. 113
Grisanche, Rhemes, and Savaranche, valleys of (map), ii. 32
Grivola, ascent of, P. iii. 318
— from below the Col de Nivolet (illustration), P. iii. 286
— from the Col d'Arbole (illustration), P. iii. 268
— from the East (illustration), P. iii. 323
— from the S.W. (illustration), P. iii. 318
— night bivouac on, P. iii. 292
— summit of (illustration), P. iii. 309
Hunting grounds of Victor Emmanuel, P iii. 259
Iseran, Col d', from the (illustration), ii. 79
Italian Alps, notes on, xi. 369
Levanna, the, ix. 168
— district, the, ii. 79
Melon, Roche, narrow escape from lightning, vii. 191
New expeditions in 1863, i. 200
— — in 1864, i. 374, 429
— — in 1865, ii. 207, 267
— — in 1866, ii. 416
— — in 1867, iv. 57
— — in 1872, vi. 91
— — in 1875, vii. 316
— — in 1876, viii. 101
— — in 1878, ix. 99
— — in 1879, ix. 362
— — in 1881, x. 354, 406
— — in 1882, xi. 114
— — in 1883, xi. 353
— — in 1884, xii. 116
— — in 1885, xii. 411
— — in 1886, xiii. 119
— — in 1887, xiii. 406
— — in 1888, xiv. 146
— — in 1889, xiv. 482
— — in 1890, xv. 295
Noaschetta Glacier (illustration), xiv. 281
Nona, Becca di, P. ii. 261
Paradis, Grand (map), vii. 8
— — ascent of, P. iii. 408; ix. 5
— — from Cogne, vii. 1
— — from the Cramont (illustration), P. iii. 411
— — group (illustration), vi. 110
— — in winter, xiv. 324; xv. 445
— — note on, P. iii. 316
Rosse, la, i. 444
Ruitor, ascent of one of the peaks, P. iii. 384
— from the (illustration), ii. 79
— from Aosta (illustration), P. iii. 383
St. Foi, vii. 400
— — landslip, viii. 415, 450
St. Pierre, Grand, Tour du, vi. 365, (illustration) 105
Sassière, Aiguille de la, ascent of, P. iii. 362
Savaranche, Val, inn at, P. iii. 291
Scrambles in the Eastern Graians, xi. 14; xii. 77, 509; xiv. 281
Sengie, Punta, xii. 176
Serre, Grand, xi. 480
Spring ascents, vii. 268
Table of heights, P. iii. 313
Traverses in, viii. 79
Week in, in 1867, vi. 83, 105
Winter expeditions, x. 494; xii. 260

Digitized by Google

6. Mont Blanc.—*From the Little St. Bernard to the Great St. Bernard, S. and E. of the Chamonix Valley.*
Alps in winter, xi. 253
Argentière, Col d', P. ii. 231; i. 444; (map) P. ii. 227
Arpille, accident on, xiii. 398
Bionnassay, Aiguille de, ii. 321
Blaitière, Aiguille de, vii. 422
Blanc, Mont, xv. 326; (maps) P. i. 1; P. ii. 189
— — accident on, in 1864, i. 384
— — accidents on, in 1866, ii. 382
— — accident on, in 1870, v. 188, 193
— — accident on, in 1877, ix. 48
— — accident on, in 1890, xv. 274
— — accident on, in 1891, xv. 539
— — by the Brouillard Gl., viii. 409
— — by the Gl. du Dôme, xv. 554
— — centenary of De Saussure's ascent, xiii. 556
— — crossed in winter, xiii. 549; xiv. 325
— — early history, viii. (app.) 3
— — E. end of chain (map), i. 274
— — excursions on the W. side of, P. i. 58
— — from Combloux, xii. (frontispiece)
— — from Courmayeur, ix. 171; xv. 552
— — from the Brenva, ii. 369
— — from the Croix de Feuillette (illustration), P. i. 75
— — from the Jardin (illustration), P. i. 48
— — from the Gl. de Miage, iv. 261
— — in spring, vii. 268
— — new ascents in the chain of, ii. 97
— — observatory on, ii. 220
— — position of summit, xiv. 170
— — relics of guides lost on, i. 332
— — round, v. 289
— — S. side (illustration), viii. 409
— — survey of chain, i. 257
— — W. face (illustration), ii. 97
Blanche de Peuteret, Aiguille, xii. 431
— — accident on, xi. 90
Books on, viii. 228, 403, 457; x. 166, 167, 172, 407; xi. 191, 484; xii. 530; xiii. 279, 430, 570
Brouillard Glacier, accident on, vii. 110
Capucin Rock (illustration), P. i. 45
Chamonix, decline of, xi. 459
— guides, vi. 306, 372, 421; vii. 42
— — rules, P. i. 525
Champey, Val, i. 47
Chardonnet, Aiguille du, iv. 144, (illustration) 146; xi. 262
Charmoz, Aiguilles des, x. 397 (with illustration)
Courmayeur, vii. 400
— excursions from, vi. 168
— to the Great St. Bernard, ii. 419
Courtes, les, accident on, xii. 343, 406
Dolent, Col, ix. 236
Dôme, Glacier du, ii. 332
Dru, Aiguille du, ix. 185 (with illustration), 381; xi. 367; xiv. 511
— — early attempt on, vi. 194
— — two attempts on, vii. 65
— — W. peak, xii. 128
Early mountaineering, notes on, ix. 20
Exhausted districts, xv. 257
Fourche, Grand, nomenclature, vii. 439
Géant, Aiguille du, ix. 48; xi. 72 (with illustration), 302
— — from the N.W. (illustration), v. 289
— — height of, xi. 181
— Col du, accident on, in 1860, i. 22
— — accident on, in 1885, xii. 407
— — accident on, in 1890, xv. 273
— — first passage, ix. 86
— — hut on, viii. 52
— Glacier du, séracs of, P. i. 39
Grépon, Aiguille de, position of, x. 420
Hamel, Dr., accident to, i. 141
Hirondelles, Col des, vi. 351; x. 111
Huts, vii. 168, 337; ix. 235

Digitized by Google

Ice pinnacles (illustration), P. i. 44
Infranchissable, Col dit, v. 143, 277
'Jacob calls on us to follow' (illustration), ii. 321
Jorasses, Grandes, accident on, xii. 108
— — in winter, xv. 370
— — Col des, ii. 114; vii. 225
Maudit, Mont, ix. 170, 312
— — height of, ii. 421
Mer de Glace, death on, vi. 306, 372
Miage, Col de (illustration), P. ii. 211
— — accident on, P. ii. 208
Midi, Aiguille du, v. 44; xi. 215
— — descent of (illustration), v. 145
— — descent to the Glacier des Bossons, v. 145
Modern mountaineering, viii. (appendix) 3
Moine, Aiguille du, xv. 78
Narrow arête, a (illustration), ii. 369
New expeditions in 1863, i. 136, 201
— — in 1864, i. 374, 429
— — in 1865, ii. 131, 208
— — in 1866, ii. 364, 415
— — in 1867, iv. 59
— — in 1868, iv. 157
— — in 1869, iv. 383
— — in 1870, v. 135
— — in 1872, vi. 90
— — in 1873, vi. 292
— — in 1874, vii. 104
— — in 1875, vii. 318
— — in 1876, viii. 105, 344
— — in 1877, viii. 337
— — in 1878, ix. 104
— — in 1879, ix. 364
— — in 1880, x. 95, 233
— — in 1881, x. 405
— — in 1882, xi. 115
— — in 1883, xi. 362
— — in 1884, xii. 120
— — in 1885, xii. 419
— — in 1887, xiii. 408
— — in 1888, xiv. 150, 404
— — in 1889, xiv. 496; xv. 150
— — in 1890, xv. 297, 364
Nonne, la, xv. 329
Peuteret, Aiguille de, ix. 1 (with illustration)
Pierre Joseph, Col de, iii. 99
Plan, Aiguille du, adventure on, x. 443
Planards, Col des, ii. 44
Salena, Fenêtre de, P. i. 1
Talèfre, Aiguille de, x. 25
Tour, Col du, and Col de Miage, P. ii. 189
— Noire, Col de la, i. 274, (illustration) 280; xv. 497
— Ronde, Col de la, v. 230
Trélatête, Aiguille de, v. 143
— Col de, ii. 285, (illustration) 290
Two peaks in, xv. 333
Verte, Aiguille, iii. 68; iv. 140, (illustrations) 141, 142
— — from the Argentière Gl., viii. 289
Winter expeditions, v. 68; vii. 436; x. 494; xi. 242

7. CHABLAIS, GENEVOIS, AND FAUCIGNY.—*N. of the Chamonix Valley, S. of the Lake of Geneva, and W. of the Rhone Valley.*

Anterne, Lac d', and the Chaine des Fys (illustration), ii. 49
Blanc, Mont, new ways to (map), xii. 148
— — round, v. 292
Books on, xiii. 209
Buet, early accident on, xiii. 179
— history of the, ix. 6
— snow cornice on (illustration), xii. 360
Diary of the late A. T. Malkin, xv. 43
Eagle's nest, the (illustration), ii. 52
Midi, Dent du, accident on, xiv. 138
New expeditions in 1863, i. 196
— — in 1864, i. 431
— — in 1890, xv. 298
Reposoir, Chartreuse du, xv. 331
Sallanches, neighbourhood (map), xii. 16
— spire of (illustration), xii. 3
Savoy, bye-corners in, xii. 1, 137
Sixt, excursions near, ii. 49

Digitized by Google

8. GREAT ST BERNARD.—*From the Great St. Bernard to Cols de Valpelline and d'Hérens, W. of the Evolena Valley, including Arolla.*
Arolla, xii. 265
— Combe d', rambles in, viii. 1, 133
— district, vi. 20
— Glacier, phenomenon on, x. 492
— notes on, viii. 94
— Pigne d', panorama from, viii. (frontispiece)
— — sunrise from, vii. 269
— reminiscences of, xiii. 446
— Reuse de l', Col de la, P. ii. 287
Bagnes, mountains of, P. i. 76, (map) 77
Bouquetins, Col des, i. 92
— Dents des, xiii. 529 (with illustration)
— — note on, viii. 224
Breney, Col de, vi. 366
Brulè, Mont, Col du, i. 63
Cheillon, Col de, vii. 216
Chermontane, Col de, P. ii. 273
Colon, Col de, xiv. 407
— Mont, vi. (frontispiece)
— — ascent of, v. 350
Combin, Grand, xv. 444; (map) P. ii. 273
— — from the Glacier de Corbassière (illustration), P. i. 123
— — from the Sonadon, vii. 265
— — and the high-level route, vii. 398
Corbassière, from the châlets of (illustration), P. i. 90
Diary of the late A T. Malkin, xv. 136, 213
Early mountaineering, notes on, ix. 27
Exhausted districts, xv. 258
Expeditions in, iv. 148, 203, 218
Grandes Dents, the (illustration), viii. 15
High-level route, variations on, v. 309
New expeditions in 1863, i. 137
— — in 1864, i. 377
— — in 1865, ii. 133
— — in 1866, ii. 364, 414
— — in 1869, iv. 384
— — in 1871, v. 276
— — in 1872, vi. 92, 145
— — in 1875, vii. 319
New expeditions in 1878, ix. 106
— — in 1879, ix. 364
— — in 1881, x. 358
— — in 1882, xi. 116, 174
— — in 1886, xiii. 173
— — in 1887, xiii. 410
— — in 1889, xiv. 498
— — in 1890, xv. 298
— — in 1891, xv. 542
Otemma, Col d', x. 492
— peaks, nomenclature of, xii. 523
Oulie Cecca, Col de l', xi. 239
Rosa Blanche, xi. 238
Rouges d'Arolla, Aiguilles, xiv. 84
St. Bernard, Great, mediæval passage of, xiii. 271
Serpentine, Col de la, vi. 366
Sonadon, Col du (illustration) P. ii. 246
— — and the Col de la Maison Blanche, P. ii. 241
— — to Ollomont, P. ii. 259
Valpelline, Col de la, P. ii. 306, (map) 307
— head of the (illustration), P. ii. 317
Za, Aiguille de la, from the Glacier de Dauva Blanz, ix. 170

9. EVOLENA-ZINAL. — *E. of the Evolena Valley, W. of the Zermatt Valley, N. of Col d'Hérens.*
Besso, Lo (illustration), P. i. 147
Biesjoch, lake on, v. 135
Blanche, Dent, i. 33; ii. 292, 368
— — accident on, xi. 97
— — a night adventure on, xv. 404
— — by S. arête, viii. 114
— — Col de la, ix. 172
— — early ascents of, xv. 64
— — from Zermatt, vii. 427
— — from Zinal, xi. 158
Book on, xi. 234
Cornier, Grand, Col du, v. 350
— — record on, xii. 467
Exhausted districts, xv. 264
Expeditions in, vii. 388
Forcletta, Pas de, i. 203
Gabelhorn, by S.E. arête, viii. 399
— from Zinal, ii. 221
— Unter, from the Trift valley, xiii. 176
Hohbalm, viii. 284
Huts, vii. 337
Moming Pass, ii. 191

Digitized by Google

Mountaineering without guides, x. 418; xii. 128, 424
Mourti, Pointes de, xv. 556
New expeditions in 1863, i. 197, 201
— — in 1864, i. 376, 431
— — in 1865, ii. 133, 209
— — in 1871, v. 274
— — in 1872, vi. 145
— — in 1873, vi. 294
— — in 1874, vii. 107, 152
— — in 1875, vii. 320
— — in 1876, viii. 108
— — in 1877, viii. 338
— — in 1878, ix. 106
— — in 1879, ix. 366
— — in 1880, x. 96
— — in 1881, x. 359
— — in 1882, xi. 118
— — in 1884, xii. 121, 255
— — in 1886, xiii. 123
— — in 1887, xiii. 409
— — in 1888, xiv. 152
— — in 1889, xiv. 499
— — in 1890, xv. 306
— — in 1891, xv. 546
Notes on, xv. 370
Rothhorn, ii. 67; vi. 365
— from Zermatt, vi. 268
Rothhornjoch, vi. 436
St. Nicholas to Susten, i. 93
Torrent, Col, murder of traveller on, i. 138, 207
Trift Glacier (illustration), xii.360
— Pass, P. i. 126
— — from the Gornergrat (illustration), P. i. 128
Weisshorn, the, i. 39, 44
— accident on, xiv. 136
— by W. face, xi. 416
— from the north, v. 305
— from the Schallenberg Glacier, viii. 419
— from Zinal, ix. 427; xiv. 515; xv. 192
Wellenküppe, early name of, xiii. 555
Zermatt, expeditions round, viii. 376
Zinal Glacier (map), P. i. 127
Zinaljoch, vi. 437

10. Monte Rosa.—*From Col de Valpelline to Monte Moro, including the Saasgrat.*
Adler Pass to Fee, xiii. 185
Allalinhorn, P. i. 222
Balfrinhorn, i. 188; xi. 414
Balmenhorn (illustration), xii. 70
Books on, ix. 440; xv. 453
Breilhorn, x. 423
Breithorn, P. ii. 343
— first ascent of, xv. 437
— from the Schwarzthor, xii. 246
— N. side, v. 44; vii. 420
Buserailles, Gouffre du, ii. 271
Château des Dames, P. ii. 310
Cornère, Val, Col de, P. ii. 310
Diary of the late A. T. Malkin, xv. 46, 147, 205
Dom, P. i. 194; xv. 369
— from the Domjoch, xv. 104
— from the Eggischhorn (illustration), P. i. 195
— from the Kien Gl., xv. 222
— from Saas, xv. 101
Domjoch, iv. 369; ix. 309
Dürrenhorn by N.W. face, xiii. 556
Early mountaineering, ix. 28; xiv. 407
Exhausted districts, xv. 263
Expeditions in, vii. 388
Fee Pass, xi. 414
Felikjoch, P. ii. 397
— accident on, viii. 112, 163
Findelen Glacier, accident on, i. 21
Gassigjoch, xi. 181
Gnifetti, Capanna, from the, to Zermatt, xv. 223
Hérens, Dent d' (with illustration), i. 209; ix. 49
— — from the Tiefenmattenjoch, ix. 382
Hohberghorn, xiii. 521
Jägerhorn, iv. 65
Jägerjoch, xv. 369
Jazzi, Cima di, from Macugnaga, viii. 51
Jumeaux, Col des (Felikjoch), P. ii. 397
— of Valtournanche, ix. 3
Loccie, Col delle, i. 75
Luseney, Bec de (with illustration), iii. 49
Lysjoch, P. ii. 359; ix. 309
— and Zumstein Spitze fifty years ago, v. 136
Lyskamm, P. ii. 383
— accident on, in 1869, iv. 375; v. 23

Digitized by Google

Lyskamm, accident on, in 1876, viii. 346
— early name of, xiii. 555
— from the Gornergrat (illustration) P. ii. 383
— from Gressonay, iv. 65; (illustration), P. ii. 359
— from the N.E., xv. 441
— from the W., i. 86
Matterhorn, ii. 4; v. 329; viii. 447
— accident on, in 1865, ii. 148
— accident on, in 1879, ix. 372
— accident on, in 1886, xiii. 95, 166, 264, 421
— accident on, in 1887, xiii. 399
— accident on, in 1890, xv. 274
— adventure on, xiii. 550
— by the Zmutt arête, ix. 458
— cannonade on (illustration), v. 237
— from Breuil, ii. 154, 237; (illustration) iv. 187; v. 259
— from the Col de la Dent Blanche (illustration), P. ii. 337
— from the Dent d'Hérens (illustration), i. 220
— from the N.E. (illustration), iv. 189
— from St. Luc (illustration), P. i. 154
— from the Stockje (illustration), P. ii. 337; (illustration) ix. 449
— from the Zmutt Glacier, ix. 449
— hut, vii 337
— hut on S. side, ii. 268
— hut on Zermatt face (illustration), ix. 371
— 'my first camp on,' ii. (frontispiece)
— northern and southern ascents of, iv. 185
— without guides, viii. 110, 242
Mischabeljoch, i. 125
Mittaghorn to the Egginerhorn, xiii. 182
Modern mountaineering, viii. (app.) 26
Mountaineering without guides, x. 418; xii. 128
Nadelgrat (illustrations), x. 332; xiii. 521
Nadelhorn from the Hohberg Glacier, xi. 175
Nadeljoch, iv. 365
New expeditions in 1863, i. 135, 196, 199
New expeditions in 1864, i. 377, 432
— — in 1865, ii. 134
— — in 1866, ii. 413
— — in 1867, iv. 54
— — in 1868, iv. 157
— — in 1869, iv. 384
— — in 1871, v. 275
— — in 1872, vi. 91, 145
— — in 1873, vi. 293
— — in 1874, vii. 105, 154
— — in 1875, vii. 319
— — in 1876, viii. 107, 345
— — in 1877, viii. 338
— — in 1878, ix. 108
— — in 1879, ix. 365
— — in 1880, x. 96, 162
— — in 1881, x. 358, 405
— — in 1882, xi. 116, 120
— — in 1883, xi. 363
— — in 1884, xii. 121
— — in 1885, xii. 419
— — in 1886, xiii. 123, 172
— — in 1887, xiii. 412
— — in 1888, xiv. 152
— — in 1889, xiv. 499
— — in 1890, xv. 305, 364
— — in 1891, xv. 551
New routes in 1886, xiii. 161
Nord End, P. ii. 412
Riffelhorn, accident on, ii. 153
— discovery on, vi. 437
— from the Gorner Glacier, v. 376
Rosa, Monte (maps), P. i. 155; P. ii. 343; i. 50
— — accident on, ii. 154
— — and the Weissthor ridge (illustration), xi. 193
— — early attempts on, xii. 468; xv. 493
— — from the Gornergrat (illustration), P. ii. 416
— — from Gressonay, note, vii. 218
— — from Macugnaga, vi. 232
— — from the S., xii. 65
— — from the Zumstein Sattel, viii. 400
— — in the eighteenth century, ix. 496
— — in winter, xi, 243, 479
— — round, x. 158
Saasgrat and Fletschhorn (map), P. i. 207
— north district of, x. 332
St. Théodule, accident on, P. i. 190
— strange discovery on, xii. 470

Digitized by Google

St. Théodule, winter on, ii. 219, 272
Schwarzthor, P. i. 155
Schwarze Glacier, ascent of (illustration), P. i. 176
— — ice pinnacles (illustration), P. i. 178, 179
Sesiajoch, i. 49; v. 143, 367
Spring ascents, vii. 268
Südlenzspitz, xi. 181, 382
Täschhorn, from the Fee Gl., ix. 200
Tiefenmattenjoch, v. 320
Tournalin, Grand, in winter, vii. 214
Tournanche, Col, ii. 86
Weissthor, New, in 1849, ix. 173
— ridge, passes across, xi. 193
Windjoch, from the (illustration), xiii. 164
Winter expeditions, x. 494; xii. 260; xiii. 549; xiv. 325
Zermatt and the Matterhorn in winter, i. 77
— early mountaineering, viii. (app.) 26
— expeditions round, viii. 375
— in 1840, x. 44

11. SIMPLON.—*From Monte Moro to the Simplon, including Monte Leone.*
Bistenen Pass, ii. 317, 426
Diary of the late A. T. Malkin, xv. 210
Early mountaineering, notes on, ix. 29
Expeditions from the Saasthal, viii. 148
Fletschhorn, P. i. 206
Gamserjoch, i. 140
Laquin and Rossboden Passes, vii. 124, 215
Laquinjoch, iii. 44
New expeditions in 1863, i. 135, 138, 199
— — in 1864, i. 377, 433
— — in 1873, vi. 296
— — in 1876, viii. 106
— — in 1879, ix. 367
— — in 1881, x. 405
— — in 1882, xi. 117, 119
— — in 1883, xi. 363
— — in 1884, xii. 123
— — in 1887, xiii. 415
— — in 1889, xiv. 501
— — in 1890, xv. 307
New expeditions in 1891, xv. 550
Portiengrat, xi. 181, 392
Rosa, Monte, seen from the Simplon road, i. 207
Rossbodenhorn, routes up, x. 489
Saasgrat and Fletschhorn (map), P. i. 207
Sonnighorn, xi. 181
Weissmies, viii. 226
— and Fletschhörner, xv. 153

12. LEPONTINE ALPS. — *From the Simplon to the St. Gotthard, including Ticino and the Italian Lakes.*
Basodine and Ofenjoch, ix. 171
Bavona, Val (illustration), x. 56
Bignasco, inn at, xi. 304
Binnenthal, xi. 481
Books on, xii. 62, 487, 488; xiv. 338; xv. 93
Early mountaineering, xiv. 406
Excursions in, ix. 57
Formazza, Val, mountains of (map), ix. 57
Generoso, Monte, viii. 52
Italian lakes, new route across, xiii. 38
Lepontine Alps, xv. 152
New expeditions in 1863, i. 198
— — in 1864, i. 380
— — in 1866, ii. 410
— — in 1873, vi. 299
— — in 1874, vii. 154
— — in 1877, viii. 340
— — in 1878, ix. 112
— — in 1879, ix. 369
— — in 1880, x. 98
— — in 1886, xiii. 126
— — in 1888, xiv. 153
— — in 1889, xiv. 503
— — in 1891, xv. 550
Simplon to the Tosa Falls, xi. 395
Ticino, wanderings in, x. 56, 146

13. DIABLERETS.—*W. of the Gemmi, N. of the Rhone Valley.*
Accidents in 1887, xiii. 398
Bise, Cornettes de, accident on, xiii. 53
Book on, ii. 41
Cry, Haut de, accident on, i. 288
Diablerets (map), P. i. 327
— accident on, ix. 373
— from the Creux de Champs, viii. 400

Digitized by Google

Diary of the late A. T. Malkin, xv. 56
Engstligengrat in winter, v. 67
Morcles, Dent de, xi. 370
Mountaineering in, viii. 269
New expeditions in 1890, xv. 311
Rothkumme Glacier, ii. 270
Villard, view from (illustration), P. i. 342
Wildstrubel and Oldenhorn, P. i. 326
Winter expeditions, xii. 171
Zanfleuron Glacier, accident on, xiv. 474

14. Bernese Oberland.—*E. of the Gemmi, W. of the Grimsel.*
Accidents in 1887, xiii. 391
Aletsch Glacier, accident on, i. 20
— — electrical adventures, i. 142
Aletschhorn, P. iii. 33, (illustration) 37
— descent on the N., xi. 415
— ice grotto on, i. 144
Almerhorn, i. 320
Balmhorn and Regizi Furke, vii. 441
— new route up, xiii. 485
Bietschhorn, vi. 114
— and Blümlis Alp, i. 353
— new route across, x. 20
Books on, ii. 416; x. 413; xiii. 194; xiv. 71, 341
Diary of the late A. T. Malkin, xv. 40, 120
Doldenhorn and Weisse Frau, i. 207
Early mountaineering, viii. (app.) 39; xiv. 407
Ebnefluhjoch, Schmadrijoch, and Agassizjoch, iii. 85
Eiger (illustration), v. 337
— avalanche on the, v. 341
— by the Mittelegi arête, xiii. 553
— first ascent of, xi. 172
— from the Bergli, xii. 240
— from the Eigerjoch, viii. 203
Eigerjoch, P. iii. (frontispiece), 15
Expeditions in, ix. 438
Faldum Pass, ii. 91
Faulhorn, xiv. 302
Finsteraarhorn, P. i. 283
— by Rothhornsattel, viii. 262
— by S. arête, xi. 368; xiii. 422
— discovery of, xiv. 322
— from the Oberaarhorn (illustration), viii. 263
Finsteraarhorn from the S.E., P. i. (frontispiece)
— gîte on, i. 319
Finsteraarjoch, i. 249
Flüh Pass, v. 144
Gamchi Glacier, ii. 156, 224, 270
Gemmi, traveller shot at on, xiii. 184
Glaciers of (map), P. iii. 3
Grindelwald Glacier, retreat of, vi. 30
— hurricane at, xi. 178
— in winter, iii. 207
Grosshorn, xv. 443
Grünhorn, Gross, from the Concordia, xv. 328
Heights of mountains, P. iii. 37
Hühnerstock, xiii. 309; xv. 323
Huts, vii. 164
Isenfluh and the Sausthal, xv. 555
Jungfrau, accident on, in 1872, vi. 97
— accident on, in 1887, xiii. 391
— adventure on, xiii. 55
— attempt on, from the Roththal, in 1828, v. 374
— avalanches of, i. 184
— first ascent of, xiii. 269
— from the Roththal, xiii. 189; xiv. 245
— from the Steinberg Alp (illustration), ii. 161
— from the Wengern Alp, x. 386
— in winter, xii. 171
— upper part of, v. 377
Jungfraujoch, excursion to, from the Eggischhorn, P. i. 309
— and Viescherjoch, i. 97
Kandersteg, around, x. 377
Kilchfluh Pass, xiii 423
Kilchistock, viii. 160
Lauteraarhorn, Gross, viii. 52; xi. 27
Lauteraarjoch, accident on, x. 46
Lauteraar Sattel, i. 60
Marjelen See, vi. 100
Matten Limmi, xiv. 247
Modern mountaineering, viii. (app.) 39
Mönch, i. 82, 423
— and Jungfrau from the Wengern Alp, vii. 294
— from Wengern Alp, xiii 128
Mönchjoch, hut, ii. 224
Mountaineering in, viii. 273
— without guides, x. 418; xii. 128, 424

Digitized by Google

New expeditions in 1863, i. 134, 137, 197, 201
— — in 1864, i. 378, 433
— — in 1865, ii. 209, 267
— — in 1866, ii. 363, 410
— — in 1867, iv. 54
— — in 1868, iv. 153
— — in 1869, iv. 382
— — in 1871, v. 276
— — in 1872, vi. 93, 146
— — in 1873, vi. 297
— — in 1875, vii. 325
— — in 1876, viii. 109
— — in 1877, viii. 341
— — in 1878, ix. 111
— — in 1879, ix. 368, 493
— — in 1880, x. 98, 161
— — in 1881, x. 360, 363
— — in 1882, xi. 120
— — in 1883, xi. 364
— — in 1884, xii. 123
— — in 1885, xii. 421
— — in 1886, xiii. 121, 171
— — in 1887, xiii. 416
— — in 1888, xiv. 156
— — in 1889, xiv. 504
— — in 1890, xv. 308
— — in 1891, xv. 547
Nomenclature, ii. 252
Oberland (map), P. i. 235
— a chamois hunt in, iv. 129
Old tracks, notes on, ix. 484
Peaks and passes in, notes on, xiii. 266
Renferjoch, iv. 255, 336
Ritzlihorn, iv. 208
Roththal Sattel, passage of, ii. 161
Scheideck, Great, in winter, xiii. 73
Schreckhorn, P. i. 234; P. iii. 3; viii. 52; ix. 184; (illustrations) P. i. 241; P. iii. 4; xi. 437
— accident on, in 1869, iv. 373
— accident on, in 1886, xiii. 113
— by the E., xv. 370
— by N.W. arête, xi. 437
— falling stones on, viii. 400
— from the Lauteraar Sattel, vii. 34
— in winter, ix. 213
Silberhorn, from the N., ii. 254
Strahleck, P. i. 255
— lost on the, iv. 39
Studerjoch, i. 364
Three new ascents in, xiii. 378; xiv. 25
Tschingel cave (illustration), iv. 129
— Pass, i. 22
Viescherhorn, i. 236, 319; xiii. 555
Wetterhorn, accident on, xi. 93
— and Jungfrau in winter, vi. 405
— by the Renfen Gl., xv. 369
Winter expeditions, iv. 309; v. 63; x. 418, 494; xii. 172; xiii. 269, 466, 549; xv. 78, 199
— quartette, a, xiv. 200

15. Titlis and Rhone Glacier.—*From the Grimsel Valley to the Reuss Valley, S. of the Lake of Lucerne, N. of the Furka.*
Climbs in, xii. 266
Dammapass, xiii. 176
Engelberg, about, vi. 74
Furtwang Pass, i. 383
Göschenen-Limmi, ii. 157
Göschenen Thal, explorations in, ii. 92
— — head of (map), ii. 94
Grütli to the Grimsel, P. iii. 73
Isenthal, ii. 421
Maderanerthal, round the, vi. 337
Mountaineering without guides, x. 418
New expeditions in 1864, i. 435
— — in 1865, ii. 268
— — in 1866, ii. 411
— — in 1867, iv. 53
— — in 1873, vi. 298
— — in 1875, vii. 327
— — in 1886, xiii. 122
— — in 1888, xiv. 158
— — in 1889, xiv. 504
— — in 1890, xv. 311
— — in 1891, xv. 547
Rhone Glacier, observations on, xiii. 485
— — retreat of, xiii. 193
— — survey of, ix. 431, 500
Rothgrätli Pass, ii. 365
Schlossberg, vii. 267
Stein, neighbourhood of, xv. 72
Thierberg, summit of (illustration), P. iii. 90
Titlis, accident on, ii. 223
— in winter, xiii. 549
Triftenjoch (illustration), P. iii. 96
Uri, Alps of (map), P. iii. 73
Winterjoch, v. 143

Digitized by Google

16. North Switzerland.—*N. and W. of the Vorder Rhein Valley, E. of the Lake of Lucerne, including the Rigi, Glärnisch, the Säntis, and Tödi.*
Books on, xi. 431 ; xiv. 341
Bristenstock, P. i. 353, (map) 370
Brunni Pass, ii. 216
Calanda, stone whirlwind on, iv. 217
Clariden Grat, i. 95
Early mountaineering in, x. 289
Elm, Bergsturz at, x. 422
Glärnisch, i. 120
Glarus, Alps of (map), P. i. 371
Hufi Glacier, retreat of, vii. 267
Krukeli Pass, vi. 101
Maderanerthal (map), vi. 321
— accident in, xv. 275
— mountaineering in, xiii. 133
— round the, vi. 321
Martinsloch and the Segnes Pass (illustration), P. i. 390
New expeditions in 1863, i. 134
— — in 1864, i. 379, 435
— — in 1865, ii. 134, 214
— — in 1866, ii. 363, 409
— — in 1867, iv. 53
— — in 1879, ix. 369
— — in 1886, xiii. 126
Riemenstalden Thal and Kulm Pass, vii. 165
Ruchi Pass, iv. 217
Tödi, iii. 153
— hut on, i. 320
Windgelle, Grosse, vii. 266
— — W. peak of, viii. 160
Winter expeditions, x. 418, 494

17. St. Gotthard.—*From the St. Gotthard to the Fluela Pass, S. of the Vorder Rhein Valley, N. of the Inn Valley.*
Adula Gebirge, iii. 165
Albana, Piz d', xiii. 184
Andeer to Vico Soprano, i. 256
Bevers, Val, v. 283
Book on, xii. 284
Early mountaineering in, x. 308
Mountaineering notes, iv. 237
Munteratsch, Piz, vi. 104
New expeditions in 1864, i. 380
— — in 1865, ii. 135, 214
— — in 1866, ii. 360
— — in 1867, iv. 50
— — in 1880, x. 162
New expeditions in 1883, xi. 365
Platta, Piz, iv. 218
Sertig Pass, i. 318
Stella, Pizzo, ii. 272
Swiss Dolomites, v. 206
Tinzenthor, v. 284
Winter expeditions, x. 418, 495

18. Bernina.—*From the Inn Valley to the Adda Valley, W. of the Stelvio, E. of Lake Como.*
Accidents in 1887, xiii. 395
Bernina, Glaciers of (with map), i. 339
— group, new ascents in, xv. 461
— — from Pizzo Scalino (illustration), ii. 352
— Piz (map), P. ii. 131, 146; ix. 168; (illustration) xv. 461
— — and Piz Morteratsch, pass between, viii. 160
— — crevasse on, P. ii. (frontispiece)
— — lost on the, ix. 162
— — tour of, P. ii. 131
— — tour of, from Hospice by Sella Pass to Pontresina, iv. 238
Bondasca Glacier, accident on, xiii. 471
Books on, viii. 55; xi. 236; xiii. 210; xv. 504
Botany, ii. 423; v. 273
Boval, view from (illustration), P. ii. 159
Campfer, notes from, xi. 370
Disgrazia, Monte della, i. 3, (illustration) 351
— — country round (map), i. 4
— — from Chiareggio, viii. 20
— — from the N.E., xi. 245
— — from the Sella Pass (illustration), xi. 245
Dosde, Corno di, xv. 557
Engadine in winter, x. 31
Güssfeldt Sattel, xv. 498
Güzza, Cresta, iv. 217
Morteratsch, Piz, accident on, i. 437
New expeditions in 1863, i. 135
— — in 1864, i. 380, 435
— — in 1865, ii. 135, 212
— — in 1866, ii. 358, 404
— — in 1867, iv. 48
— — in 1871, v. 279
— — in 1872, vi. 94

Digitized by Google

New expeditions in 1873, vi. 301
— — in 1875, vii. 327
— — in 1876, viii. 109
— — in 1878, ix. 113
— — in 1880, x. 100
— — in 1882, xi. 121
— — in 1885, xii. 422
— — in 1886, xiii. 127
— — in 1887, xiii. 417
— — in 1888, xiv. 159
— — in 1889, xiv. 505
— — in 1890, xv. 313
Palü, Piz, escape on, ix. 119, 164
Pontresina guides, i. 141, 205; ii. 407
— tariff, vi. 430
Roseg, Piz, i. 255; iii. 19; v. 373; ix. 383; (illustration) xv. 471
— — in winter, xi. 411
— — third peak of, ix. 168
Rosso di Scerscen, Monte, xii. 177
— — — from the Scerscen Glacier, xiii. 301
St. Moritz, flora of, v. 273
Schneehaube, ix. 439
Swiss Dolomites, v. 200
Tschierva Glacier, expeditions from, viii. 198
Winter expeditions, ix. 492; xv. 153, 226, 444

19. Ortler District.—*From the Stelvio to the Botzen Valley (Lower Adige), N. of the Tonale Pass, S. of the Upper Adige Valley.*
Book on, xii. 61
Bormio, district of, botany, v. 177
Cevedale, Monte, accident on, ix. 114, 162
— — view from (illustration), ii. 352
Guides, bounty fund for, xiii. 481
Hypsometry, xiv. 252, 327, 408
Königsspitze from the Sulden Grat, ix. 167
Mountaineering in, iii. 219
New expeditions in 1864, i. 382, 437
— — in 1865, ii. 143, 214
— — in 1866, ii. 353
— — in 1867, iv. 46
— — in 1873, vi. 301
— — in 1875, vii. 328
— — in 1879, ix. 370
— — in 1889, xiv. 505
Ortler group, v. 284; (illustrations) i. 389, 401, 409, (map) 422
— — topography of, i. 385
— Spitze, i. 46; ii. 424
— — early ascents of, ii. 301
Suldenthal, a night adventure in, ii. 341
Thurwieser Spitze, xv. 329
Winter ascents, ix. 492

20. Adamello and Brenta District.—*S. of the Adda, Tonale Pass, and Val di Sole, E. of Lake Como, W. of the Adige.*
Adamello district, excursions in, v. 186
Books on, viii. 470; x. 174, 410; xv. 166, 505
Brenta Alta, vii. 46
— group, xi. 413
— — expeditions in, xi. 309 (with map)
— — from Monte Gazza (illustration), xi. 323
Castellaccio, Passo, xv. 362
Cercen Pass, accident on, xiii. 114
Genova, Val di, x. 112
— — and the Pisgana Pass, ii. 11
Hypsometry, xiv. 252, 408
Iséo, Lago d', viii. 85
Mountaineering in, iii. 219
New expeditions in 1864, i. 436
— — in 1865, ii. 147, 213
— — in 1867, iv. 45
— — in 1872, vi. 92, 94, 148
— — in 1873, vi. 303
— — in 1874, vii. 107, 155
— — in 1875, vii. 328
— — in 1876, viii. 109
— — in 1880, x. 104, 162
— — in 1881, x. 362
— — in 1884, xii. 126
— — in 1887, xiii. 417
— — in 1888, xiv. 161
Pinzolo, round, ix. 304; xi. 122
Presanella (illustration), ix. 306
Presena Pass, x. 179
Rendena, Val, Dolomites of, v. 249
— — inns in, viii. 168
Riva to Pinzolo, i. 442
Sabione, Dos di, viii. 164
Vallon, Cima di, viii. 398
Winter expeditions, xv. 226

Digitized by Google

21. North Tyrol.—*N. of the Inn Valley, Pinzgau, and Ennsthal, between the Fluela Pass, Inn, and Bavarian Plain, including the Silvretta Group, Vorarlberg, and Salzburg.*
Books on, xiii. 205; xiv. 412; xv. 232, 505
Bregenzer Wald, the, ii. 154
Dachstein, accident on, xiv. 138
— group, ix. 495
Fluchthorn, iv. 207
Hochnarr, accident on, xiv. 473
Mountaineering in, iii. 218
New expeditions in 1864, i. 436
— — in 1866, ii. 352, 362
— — in 1878, ix. 113
— — in 1881, x. 360, 405
— — in 1884, xii. 124
— — in 1889, xiv. 506
— — in 1890, xv. 315
Paznaun Thal, passes in, xi. 123
Watzmann, accident on, xv. 225
— from S. Bartholomä, xv. 501
Widderstein, accident on, xii. 109

22. Central Tyrol.—*S. of the Inn Valley, Pinzgau and Ennsthal, N. of the Drave, E. of the Adige, including the Oetzthal, Stubai, Zillerthal, Gr. Venediger and Gr. Glockner.*
Accidents in 1886, xiii. 54, 110
Books on, vii. 457; x. 413; xi. 307; xiii. 131, 429; xv. 166
Expeditions in, viii. 161; ix. 494
Fernaujoch, x. 280
Glockner, Gross, P. ii. 429; vi. 150, 351; vii. 211
— — from Heiligenblut (illustration), P. ii. 427
— — green shadows on snow, i. 95
— — hut on, ix. 238
— — topography, P. ii. 425 (with map)
Hornspitzen, vii. 211
Hypsometry, xiv. 252, 327
Kitzsteinhorn, accident on, xv. 273
Mountaineering in, iii. 217
New expeditions in 1865, ii. 139
— — in 1866, ii. 353
— — in 1872, vi. 95, 148
— — in 1874, vii. 156
— — in 1875, vii. 329
New expeditions in 1878, ix. 113
— — in 1880, x. 101, 165
— — in 1881, x. 361
— — in 1884, xii. 124
— — in 1886, xiii. 127
— — in 1888, xiv. 160
New routes in, xv. 361
Oetzthal, xi. 123
— district, xiv. 455
Oetzthaler Ferner in 1875, ix. 31
Schloss Weissenstein, viii. 227
Similaun, accident on, xv. 273
Steinschlagjoch, iv. 383
Venediger, Gross, xv. 556
— — accident on, ii. 224
Weisskugel, struck by lightning on, viii. 449
Wiesbachhorn, Gross, vi. 351
Winter expeditions, x. 495
Zillerthaler Alpen (map), vii. 281
Zillerthaler Ferner, vii. 232, 281
— — accident in, x. 177

23. South Tyrol or Dolomites.—*S. of the Drave, E. of the Adige, W. of the Piave.*
Ampezzo-Cadore-Auronzo Passes, vii. 240
Ampezzo-Sexten-Auronzo Passes, vii. 9
Books on, i. 370; vi. 317; viii. 116, 459, 469; xii. 285; xiii. 348
Botany, vii. 167
Campitello Dolomites (illustrations), xv. 366, 367
Cinque Torri, the, x. 180
Cortina, round, vi. 199
Cristallo, Monte, xv. 78
— — accident on, xiv. 136
Drei Zinnen, the, and Marmarole, vi. 344
Giralba, Monte, xv. 369, 441
Hypsometry, xiv. 60, 327, 408
Langkofel group, xv. 365
Larsec, Val, x. 110
Marmolata hut, vii. 338
Mountaineering in, iii. 218
— without guides, xii. 128
New expeditions in 1863, i. 201
— — in 1864, i. 437
— — in 1865, ii. 137
— — in 1867, iv. 42, 51
— — in 1872, vi. 95, 149
— — in 1874, vii. 109, 157
— — in 1875, vii. 331

Digitized by Google

New expeditions in 1878, ix. 114
— — in 1879, ix. 371
— — in 1880, x. 106, 164
— — in 1881, x. 361
— — in 1884, xii. 126
— — in 1886, xiii. 174, 263
— — in 1889, xiv. 505; xv. 151
— — in 1890, xv. 315
Notes on old tracks, x. 68
Pala, Cimon della, v. 111; viii. 115, 162; (illustration) vii. 57
— — accident on, xiv. 138
— — final kamm (illustration), v. 113
Pelmo, vi. 257, 367
— on the (illustration), vi. 257
Pietra, castle of (illustration), iv. 385
Popena and Gaisl, ascents of, vi. 398
Popera group (illustration), xv. 442
Primiero, viii. 278
— peaks of, iv. 385
Ritorto, Passo di, vi. 150
Rosengarten Gebirge, vii. 345; ix. 238
— Passes, x. 72
San Martino di Castrozza, Dolomites of, xiv. 291
— — Pala di, ix 48, 165, 307
— — two new ascents, xv. 368
Sass Maor, xiii. 455; (illustration) xiv. 299
Sketches from, xiii. 13
Vernel, xv. 79
Vezzana, Cima di (illustration), v. 113; vii. 57
— — and Cimon della Pala (illustration), vii. 57
Winter expeditions, ix. 307, 382; x. 495
Zwölferkofel, vii. 211

24. South-Eastern Alps.—*E. of the Piave, including Terglou, Bosnia, Herzegovina, &c.*
Books on, ix. 446; xii. 62
Col Vicentino, Bosco del Consiglio, and Monte Cavallo, vi. 124
Jalouz, vii. 211
Kaltwasser Sattel, vi. 197
Laste, Monte, vii. 264
Maglich (map), xiv. 430
Maglich, ascent of, xiv. 417
— chain of (illustration), xiv. 423
— from the Drakosh (illustration), xiv. 417
Mediæval routes, vi. 371
Terglou and Mangert in Carniola, iv. 345

Africa.
Algerian Mountains, xiv. 82
Atlas, Great, mountaineering in, vi. 220
— Lesser, xiii. 40
Azerou Taletat (illustration), xiv. 73
Book on, xv. 389
Cameroon Mountains, xiv. 253
Champagne Castle, xiv. 56
Fernando Po peak, vi. 1
Imponjwana, the (illustration), xiv. 397
Kabyle Highlands, the, xiv. 73
Kahlamba Mountains, xiv. 397, (map) 402
Kilima-njaro, xiii. 418, 475; xiv. 511; xv. 69
Mountain exploration in, vi. 51
Peter Botte Mountain (Mauritius), vi. 189
Ruwenzori, xiv. 324

America, N.
Alaska, mountaineering in, xiii. 89, 177
Books on, iv. 223; v. 389; xiii. 427; xv. 163
Colorado, southern, mountaineering in, xv. 480
Hood, Mount, iii. 214
Hypsometry, xv. 371
Iztaccihuatl (with illustration), xv. 268
— summit of (illustration), xv. 269
Mexican peaks, heights of, xv. 271
Mountains in the Far West, viii. 233, 385
New expeditions in 1890, xv. 316
Orizaba, iii. 210
Pacific, mountaineering on the, v. 357
Popocatepetl, iv. 234; viii. 280; xiv. 403
Rainier, Mount, vi. 192

Digitized by Google

Rocky Mountains, ix. 241
St. Elias, Mount, xiv. 164, 345, (illustration) 348, (map) 354
Selkirk Range, xiv. 58, 168, 280; xv. 418
Sir Donald, Mount, xv. 329
Viejo, El, i. 223
— craters of (illustration), i. 232

AMERICA, S.
Aconcagua, xii. 128
Andes, Chilean, xi. 407
— of Ecuador, ix. 513; x. 49, 113, 185, 241, 369, 425, 498
— railroad across, viii. 425
Books on, ix. 501; xiii. 558
Chimborazo, ix. 489; x. 226, (illustration) 369
— plan of camp (illustration), x. 436
Cotopaxi, viii. 448; ix. 45; (illustration) x. 113
— eruption of (illustration), x. 436
Illimani, viii. 397; ix. 489
Quito, the Great Quebrada (illustration), x. 241
Roraima, xii. 127, 264
Straits of Magellan and the Andes of Central Chile, iv. 327
Venezuela, vi. 50, 101

APENNINES.
Books on, viii. 55; xii. 62; xiv. 269; xv. 232
New expeditions in 1875, vii. 336
Pania delle Croce, vii. 214, 372
Pizzo d'Uccello and the Solco d'Equi, xi. 324
Sasso d'Italia, Gran, viii. 353 (with illustration)
Tezio, Monte, xii. 175
Vallombrosa, xiii. 557
Winter ascents, ix. 491

ASIA.
Ararat, Mount, viii. 110, 208; ix. 318
— — early ascents of, viii. 213
Argæus, Mount, ix. 384, 462
Books on, vi. 205; ix. 183; xiii. 46
Demavend, viii. 256
Jelu, mountains of (illustration), xiii. 293
Kurdistan, mountains of, xiii. 293
New expeditions in 1890, xv. 320
Om Shaumer, i. 205

AUSTRALIA.
Book on, xiii. 493

CARPATHIANS.
Book on, xi. 371
Eastern, iii. 25

CAUCASUS.
Abkhasia, the solitude of, xv. 237
Adai Choch, xii. 209, 314, 493
— — group (illustration), xv. 520; (maps) xii. 493; xiv. 453
— — — from Goribolo (illustration), xiii. 354
Ascents in, xv. 558
Bezingi Glacier (illustration), xiii. 230
Books on, vi. 158; ix. 182; xi. 429; xv. 570
Bordjula (illustrations), xv. 517, 518
Caucasian travel, xiii. 41
Caucasus, iv. 241
Ceja Glacier (illustration), xii. 217
Central group (map), xiv. 24
Chain of the (map), xiii. 353
— above the Dychsu Glacier (illustration), xiii. 373
Climbs in, xiii. 499; xiv. 1
Donkin's (W. F.) journey in 1888, xiv. 311
Dychtau, xv. 173, (illustrations) 173, 176, 190; (map) xv. 33
— and glaciers (illustrations), xv. 37
— from the Doumala Glacier (illustration), xiv. 10
Early explorers, xiv. 314
Elbruz, ii. 168; (with illustration) vii. 113; xiv. 239
— from Terskol (illustration), xiv. 57
Expedition to, xiv. 94, 177
Exploration of, xiv. 88
Explorations in 1889, xiv. 436
Gestola, xiii. 220, 418
Goribolo Pass, view from (illustration), xiii. 373
Gvalda Glacier, range south of (illustration), xiii. 504
High-level routes, xv. 254
Hints for travellers, xi. 471; xiv. 24

Digitized by Google

Karagam Glacier (illustration), xiv. 57
Koshtantau (illustration), xiii. 244
— group (map), xiii. 258
Last Bivouac, the (illustration), xv. 26
Latpar Pass, from (illustration), xiii. 371
Leila, view from (illustration), xv. 237
Mountaineering in, xiii. 242
Naksagar Pass, from (illustration), xiii. 371
Naltshik, from (illustration), xiii. 354
New expeditions in 1884, xii. 110
— — in 1886, xiii. 116
— — in 1890, xv. 316
New maps of, xiv. 57
Passes in, xii. 423
Search expedition, xiv. 432; xv. 26
Six weeks travel in, xiii. 353
Snowy chain, the, from above Gurschavi (illustration), xii. 317
Southern valleys of, xv. 513
Tetnuld from Gestola, xiv. (frontispiece)
Topography, xii. 320; xiv. 452
Tour in, iv. 160; vii. 100; xii. 89
Travel in, xv. 372
Tsforga, view from (illustration), xv. 516
Ushba (illustration), xiii. 514
— from Adyrsu Pass (illustration), xiii. 354

CORSICA.
Midsummer in, x. 194
Notes on, xi. 449
Rotondo, Monte, in winter, xi. 412
Round Monte Cinto, x. 314
Tragone, camp at (illustration), iv. 289
Visit to, iv. 269, 289

GREAT BRITAIN.
Alisdair, Sgurr (illustration), xv. 429
Ben Nevis in winter, xi. 182, 480
Books on, ii. 261; xv. 233
Coolins, the black, xiii. 433
Cuillin hills (illustration), xiii. 433
Cwm Glas moraine (illustration), P. i. 429
Cwm Graianog (illustration), P. i. 452
Gillian, Sgurr-Nan, xv. 70
Glyder Fawr in winter, vi. 195
Highlands, the, in winter, xi. 480
Lake district, the, xiv. 169
— — access to mountains in the, xiii. 548
— — in winter, v. 34
Llanberis Pass (illustration), P. i. 419
— — Bloc Perché (illustration), P. i. 425
— — episode in the history of, an (illustration), P. i. 469
— — Roches Moutonnées (illustration), P. i. 422
— — section of (illustration), P. i. 445
Lliwedd, xi. 239
Llyn Idwal, section across moraines (illustration), P. i. 454
— Llydaw, Roches Moutonnées (illustration), P. i. 440
Maen Bras (illustration), P. i. 460
New expeditions in 1890, xv. 315
Scafell, xiii. 93, 178
Scotland, climbing in, xii. 502
Skye, old man of, x. 111
— — by the W. edge, xiii. 265
— Rocky Mountains of, xv. 422
Snowdon, ancient glaciers of (map), P. i. 419
— strange sight on, xi. 482
Thirlmere, viii. 401
Wales, ancient glaciers, P. i. 419

GREECE.
Hypsometry, viii. 434
Mountain excursions in, ix. 157
Taygetus, viii. 316

GREENLAND.
Greenland, v. 1
Jakobshavn ice-stream, v. (frontispiece)
Notes on, vi. 161, 209
Petermann Spitze, v. 266
Screw propeller canoe amongst icebergs (illustration), vi. 209
Umenak, island of (illustration), vi. 161

HIMALAYAS.
Ascents in, xii. 25

450183 Digitized by Google

Books on, vi. 43; vii. 338, 452
Climbing and hunting in, xi. 203
Dopendikang (illustration), xv. 116
Gangootre, vi. 385
— peak (illustration), vi. 385
Great peaks of, the, xii. 438
Hindostan to Tibet, iii. 52
Kánchanjangá group (illustrations), iv. 73; xii. 99
Láma Yuru (illustration), iii. 148
Mountain travel in, x. 1
Mountaineering in, xi. 301, 365, 402; xii. 99
Mustagh Pass, the, xiv. 50
Nepal peaks (illustration), xii. 459
Noon Coon peaks (illustration) iv. 177
Routes in, vii. 259
Sikaram, ix. 288
Sikkim, ix. 384
— exploration in, xv. 111
— Thibet frontier (map), xv. 112
Simla to Srinágar, iii. 118
Sooroo route, the, iv. 193
Suffaid Koh range, x 12
Survey, notes on the, xii. 52
Trips in, iv. 73

ICELAND.
Baula, i. 360
Books on, iii. 197; viii. 168
Climbing in, vii. 50
Herdu Breid (illustration), P. ii. 96
Hver-Fjall (illustration), P. ii. 102
Iceland, South-East (map), P. ii. 3
Kláfr, swing bridge (illustration), P. ii. 86
Lang Jökull (illustration), P. ii. 115
Myrdals Jökull, vii. 179
New expeditions in 1875, vii. 336
Orœfa Jökull, xv. 559; (illustrations) P. ii. 50, 67
Oskjugjá, the (illustration), viii. 173
Paul, Mount (illustration), viii. 169
Raud-Holt (illustration), P. ii. 27
Reykjanes, Cape, expedition to, i. 247
Snæfell Jökull, v. 39
Surts-Hellir (illustration), P. ii. 112
Surts-Hellir lava field (illustration), P. ii. 110
Tour in, in 1861, P. ii. 3

JAPAN.
Fusiyama in winter, vii. 214

NEW GUINEA.
Book on, vii. 269
Mountaineering in, xv. 71

NEW ZEALAND.
Alps of, x. 237; xii. 339
Book on, xi. 428
Cook, Mount (map), xi. 57
— — and Mount Tasman (illustration), xi. 129
Earnslaw, Mount, xii. 341
Journey into the glacier regions of, xi. 1, 57, 129
Malte Brun range (illustration), xi. 141
Mountaineering in, xi. 301, 366; xv. 445
Southern Alps, vi. 364; (map) xi. 1
— — exploration in, xii. 162

NORWAY.
Books on, vii. 53; xv. 506
Climbing in, xii. 267; xiii. 144
Excursions in, v. 49
Glittertind, the, and Uledalstind, v. 154
Hammerfest, expedition to, iii. 76
Horningdalsrokken (illustration), iv. 28
Horungtinderne (illustration), iv. 32
Jökuls Glacier, P. iii. 429
Lofoten Islands, iv. 427
Mjölnir, ascent of, xiv. 380
Mörkfos (illustration), v. 49
Mountaineering in, xi. 142
New expeditions in 1885, xii. 422, 470
— — in 1886, xiii. 128
— — in 1888, xiv. 162
— — in 1889, xiv. 506; xv. 152
Raftesund Lofoten (illustration), iii. 82
Travelling in, iv. 1; viii. 49
Vaagekallen (illustration), iv. 24

PORTUGAL.
Estrella, Serra da, v. 122

Digitized by Google

PYRENEES.
Across the, xi. 399
Aragon, adventure with brigands (illustration), v. 241
Books on, iv. 64; xiv. 255
Cillorigo, gorge of the (illustration), vi. 57
Electricity in, i. 202
Flora of, ii. 47
Luchon, south of (map), P. iii. 101
Maladetta (illustration), P. iii. 122
Mountaineering in, v. 241
New expeditions in 1864, i. 383
Oo, Port d' (illustration), P. iii. 106
— Portillon d', P. iii. 101
Peñamellera, Pico de (illustration), vi. 69
Perdu, Mont (with illustration), iv. 337
Reminiscences of, xii. 17
Sauvegarde, Pic de (illustration), P. iii. 116
Spring in, vii. 47
Vignemale, the, i. 131
Western, vi. 66

SARDINIA.
Winter trip in, viii. 121

SCANDINAVIA.
Book on, xv. 507
Explorations in, xi. 182
Lapland, across, vii. 169
New expeditions in 1881, x. 363
— — in 1883, xi. 365
Pieska Jaur, camp by the (illustration), vii. 169

SICILY.
Ætna, P. i. 475

SPAIN.
Alpujarras, the, xiii. 80
Books on, ii. 265; xiv. 70; xv. 391
Montserrat, xi. 226
Mountains of, vi. 57, 149
Nevada, Sierra, iii. (frontispiece) 1; (map) iii. 16; iv. 113 (with map)

Digitized by Google

Section IV.—General Index

A_{21} ascended, xii. 44
A_{22} attempted, xii. 45
Aabrekke Glacier, xii. 269
Aamot, xiv. 506
Aar Glaciers, observations on, P. i. 403
— pavilion, vii. 164, 338
Aardal, v. 57
Abeille, Col de l', xiv. 147, 285
Abetone, l', inn at, viii. 356
Abisso, Rocca d', ascended, xii. 194
Abkhasia, xv. 237
Abney, W. de W., photographs by, xiii. 426; xv. 394
Abraspungo Pass, x. 435
Abriès, inn at, ix. 497
Abruzzi, viii. 359
Accidents, *see* Alpine Accidents
Achares, S., accident to, xiii. 398
Achsu Pass, xiv. 441
Aconcagua, iv. 331; xii. 105, 127
— attempted, xi. 407; xiii. 558
Acqui, ix. 261, 287
Ada Glacier, xi. 407; xii. 304; xiii. 559
Adai Choch, xiii. 373
— — ascended, xii. 91, 110, 209, 314, 493; xv. 317, 521
— — group, xiv. 57, 437, 453
Adamé, Corno dell', ascended, xiii. 567
— Monte, ascended, xiii. 484
Adamello, viii. 109
— ascended, ii. 147; v. 187; xi. 123
— district, inns in, v. 188
— group, topography of, ii. 15
— Pass, ii. 147
Adams, Mount, viii. 391
Adams, Sir F. O., obituary notice, xiv. 416, 470
Adams-Reilly, A., MS. of map by, xiii. 292
— obituary notice, xii. 256
Adda, source of the, v. 178
Adinapur, x. 16
Adine, Col, xiii. 231; xiv. 199
Adirsubashi ascended, xv. 558
Adish, robbery at, xiii. 361, 371
Adler Pass, i. 49; viii. 107
Adler Pass, variation of, x. 97; xiii. 185
Adlerhorn ascended, xiii. 173
Adyrsu Pass, xiii. 356, 503
Aela, Piz d', ascended, v. 205
— — in winter, x. 418
Ætna ascended, P. i. 475
— botany, P. i. 489
Africa, mountain exploration, xi. 45
Agassiz Glacier, xiii. 91; xiv. 360
Agassiz, Prof., obituary notice, vi. 384
Agassizjoch, ii. 411; iii. 92; vi. 146
— in winter, xiv. 249
Agel, Mont, ix. 383
Aggensteinspitze, accident on, xiv. 478
Agiuza, Cresta d', *see* Güzza, Cresta
Agneaux, Pic des, ascended, ix. 359
— Plate des, Glacier de la, i. 311
Agnel, Col d', x. 458
Agnelin, Col d', viii. 60
Agnello, Col de l', i. 148
— Col, vii. 258
— — Forcella del, vii. 32
Agola, Bocca d', x. 164
Ahnengrat ascended, viii. 464
Ahrenthal, vii. 283
Aigles, Col des, x. 266
Aiguille, Grande, la, ascended, vi. 289; vii. 148
— Mont, xii. 127
— — ascended, x. 347; xiv. 215
Aiguilles, Col des, viii. 342; x. 346
Aiguillette, l', ascended, xi. 114; xii. 110
Aiguillons, Col des, xii. 18
Ail-a-ma Glacier, xiv. 449
Ailefroide, P. iii. 209
— and Pics du Glacier Blanc, viii. 114
— ascended, v. 133
— central peak, xiv. 480
— chalets of, P. iii. 234
— Col de l', xi. 107; xiv. 377
— E. peak, x. 278
— from the W., xiv. 479
— position of, i. 158
Aillot, Col d', viii. 331

Digitized by Google

Ait Inguen, xiii. 40
Ajaccio, iv. 270; x. 197
Alâ, viii. 129
— Ghicet d', xi. 355
Alagir, xii. 210
Alagna, i. 51
— inn at, x. 161
Alaska, climbing in, xiii. 89, 177
— cold of, iv. 233
— forests of, iv. 225
Albana, Piz d', ascended, xiii. 184
Albaron, ii. 416
— ascended, iii. 111; ix. 475; xii. 117
— from Gl. des Eivettes, ix. 100
Albarracin Mountains, vi. 59
Albergian, Monte, ascended, xi. 113
Albertville, xii. 142
Albula, Piz, in winter, x. 495
Alcazaba, Picacho de, iv. 123
Alcoholic stimulants in mountaineering, xiii. 319
Alefroide, *see* Ailefroide
Aletsch Glacier, accident on, i. 20
— — crevasses, P. i. 323
— — electrical adventure, i. 142
— — Moulins, P. i. 323
Aletschhorn ascended, P. iii. 33
— crossed, i. 434
— ice grotto, i. 144
— Klein, ascended, xii. 179
— N. side, vi. 147, 298; xi. 415
Alisdair, Sgurr, ascended, xiii. 436; xv. 431
Allalin Pass, P. i. 225; ix. 29
Allalinhorn, viii. 384
— ascended, P. i. 222; ix. 29, 111; xi. 117
— by E. arête, xiii. 415
Allée Blanche, Aiguille de l', ascended, xiv. 497
— — — demolished, i. 272
— — Col de l', xiv. 497
Allmen, Von, accident to, vi. 97
Allos, inn at, ix. 500
Allues, Val des, ii. 312
Almagel, ix. 284
Almajalosjegna, vii. 178
Almanna-gja, P. ii. 7
Almanna-skard, P. ii. 71
Almanzor, Risco de, vi. 63
Almerhorn, i. 320; xiii. 378
Alpenstocks, P. i. 495; i. 253, 321
Alpetto hut, xi. 369
Alphubel Pass, accident on, xiv. 475
Alphubelhorn ascended, ix. 111
Alphubelhorn by N.E. face, xv. 551
— by W. arête, xiv. 501
— by W. face, ix. 367
Alpine accidents, xi. 78; xiii. 419; xiv. 172
— — early, xiii. 130, 179
— — in 1871, v. 372
— — in 1872, vi. 97
— — in 1874, vii. 110
— — in 1876, viii. 112, 163
— — in 1877, viii. 346
— — in 1878, ix. 114, 162
— — in 1879, ix. 371
— — in 1880, ix. 493; x. 46, 109, 177
— — in 1881, x. 363; xi. 145
— — in 1882, xi. 90
— — in 1883, xi. 342
— — in 1884, xii. 108, 167
— — in 1885, xii. 343, 395, 406
— — in 1886, xiii. 53, 95, 166
— — in 1887, xiii. 390, 432, 467
— — in 1888, xiv. 98, 136, 327, 432
— — in 1889, xiv. 473
— — in 1890, xv. 225, 272
— — in 1891, xv. 539
— art, ix. 37; x. 496
— — and Appliances Exhibition, xiii. 461; xv. 98
— — in the Eastern Alps, x. 280
— bibliography, ii. 159, 269, 426; iv. 62, 239; v. 378; vi. 438; vii. 445; viii. 453; ix. 239, 503
— climbing, ix. 65
— Club and the King of Italy, ii. 91
— — dinners, summer, vi. 56, 256; vii. 56, 280; viii. 56, 288; ix. 56, 312; x. 48, 288; xi. 56, 308; xii. 64, 360; xiii. 56, 352; xiv. 72, 416; xv. 235, 512
— — — winter, v. 336; vi. 160, 384; vii. 168, 408; viii. 176, 408; ix. 184, 448; x. 184, 424; xi. 192, 436; xii. 208, 492; xiii. 212, 496; xiv. 280; xv. 100, 396
— — formation of, viii. (app.) 83; ix. 50
— — legacy to, xiii. 351
— — library, xii. 425; xiv. 65; xv. 447, 501, 560
— — — catalogue, x. 48, 184
— — — duplicates, xv. 502, 559
— — — maps, x. 42
— — meeting in Liverpool, viii. 402
— — memorial to the French Government, vi. 421

Digitized by Google

Alpine Club picture exhibitions, vi. 160, 208, 285, 384; vii. 168, 408; viii. 115, 176, 408; ix. 184, 448; x. 183, 424; xi. 191, 409, 436; xii. 168, 208, 462; xiii. 175, 291, 461; xiv. 64, 309, 328, 344, 402, 416; xv. 96, 392, 396
— — proceedings, v. 336, 396; vi. 55, 160, 207, 256, 383, 445; vii. 55, 168, 224, 279, 408, 468; viii. 56, 176, 231, 288, 407, 471; ix. 55, 184, 240, 312, 448, 512; x. 48, 182, 239, 288, 424, 498; xi. 55, 191, 243, 308, 435, 485; xii. 63, 207, 286, 360, 491, 531; xiii. 56, 211, 289, 351, 495, 571; xiv. 71, 274, 342, 414; xv. 99, 168, 234, 395, 457, 511
— — recent additions, xii. 342
— — relief fund, xiii. 546, 573; xiv. 66, 71, 162, 245
Alpine Club (French), formation of, vi. 430; vii. 43
— — — meetings, viii. 54, 221, 445; x. 282, 419; xi. 178, 408; xii. 467; xiii. 183, 482, 556; xiv. 245; xv. 77
Alpine Club (German), formation of, i. 95
— — — and Tyrolese guides, vi. 369
— — — huts, xii. 263
— — — meetings, x. 420; xi. 177, 408; xii. 467
— — — publications, vii. 168
Alpine Club (German and Austrian), meetings, xiii. 183, 482; xiv. 244; xv. 76
Alpine Club (Italian) at Aosta, ii. 425
— — — formation of, i. 207
— — — meetings, v. 374; viii. 53; ix. 239; x. 237, 283, 419; xi. 177, 408; xii. 260, 468, 523; xiii. 183, 482; xiv. 243; xv. 77
— — — publications, vii. 167
— — — statistics, v. 269
— — — twenty-fifth birthday, xiv. 168
Alpine Club (New Zealand), xv. 558
Alpine Club (Norwegian), xiii. 147
Alpine Club (Swiss), formation of, i. 95
— — — expeditions, iv. 147, 203
— — — Jahrbuch, iv. 60
— — — meetings, vi. 184; vii. 159; viii. 54; ix. 239; x. 420; xi. 177, 408; xii. 468; xiii. 183, 481; xiv. 242; xv. 75, 371
Alpine Club (Swiss) twenty-fifth birthday, xiv. 168
Alpine Clubs (foreign), vi. 429
— — — congress, ix. 154, 333; x. 420; xi. 48, 177
— — — publications of, in 1888, xiv. 510
— dangers, P. i. 491; ii. 273; v. 238, 243; vii. 158, 279, 311, 402
— games, xiv. 61
— huts and chains, ix. 490
— Journal, back numbers, xv. 226, 448
— — change in editorship, ix. 513; xiv. 510
— — index, xiii. 175, 263
— — introduction, i. 1
— — 100th number of, xiii. 497
— — reprint, xii. 127, 260
— lakes, and glacier erosion theory, iv. 282
— literature, criticism on, vii. 143
— map, Switzerland, ii. 350
— matters, state intervention in, xiv. 251
— meetings, Lakes, ix. 56, 440; x. 45, 422; xi. 124
— — Wales, ix. 177, 384; x. 182, 282; xi. 182, 242
— obituary, xi. 78
— photographs, ii. 48; ix. 239, 448; x. 281; xi. 47, 178, 410; xii. 342
— pictures, ii. 95, 318; vii. 45; ix. 302; x. 282, 497; xii. 341; xiii. 337; xv. 167, 507, 571
— portfolio, the, xiii. 549
— railways, xv. 79, 222
— slang, vi 193, 253
— sport, iv. 129; vi. 174; xii. 343
Alps, flora, destruction of, xii. 287, 358
— frequency of bad weather in, v. 245
— in March, x. 238
— in winter, temperature, v. 74
— maps of, ii. 350; xiii. 270
— panorama of, from Turin, v. 269
— photography in, iv. 402; xi. 63; xv. 472
— Saracens in the, P. ii. 148, 184; ix. 202, 208, 254; x. 269
— structure of, xiii. 314; xiv. 38, 105, 221

Digitized by Google

Alps, table of peaks, P. i. 517
— — of peaks and passes, P. iii. 506
— winter of '71–72, v. 375
Alps (Eastern), mediæval routes, vi. 371, 434
— — table of heights, xiv. 60, 252, 326, 408
Alps (French), passes in, in the eighteenth century, x. 275
Alpujarras, xiii. 80
— topography of, iii. 9
Altar, viii. 448
— attempted, x. 429
Alteidet, P. iii. 436
Altels ascended, P. i. 335
— in winter, x. 418
Althing, P. ii. 8
Alvau, Roche d', ascended, ix. 92, 232
— — Col de la, viii. 100; x. 267
Amaro, Monte, viii. 363
Amateurs and guides, xii. 289
Ambata, Forcella d', vii. 27
Ambies, Bocca d', ascended, x. 162
— Cima d', ascended, x. 105
— — topography, xi. 413
— Passo d', vii. 108
Ambin, Col d', viii. 70; xi. 350
— Dent d', ascended, vii. 316; xi. 349
— — central peak, xii. 195
— Mont d', ascended, vi. 292; xi. 350
America, North, heights of mountains, viii. 241
— — traces of glaciers, x. 109
Amerten Glacier, P. i. 328
Amianthe, Col d', xv. 261
Amola, Passo d', x. 105
Ampezzo valley, xiii. 18
Anavyrti, inn at, viii. 327
Ancou, Col d', xi. 400
Andeer, i. 256
Anderegg, J., fund, vi. 316, 372
— obituary notice, ix. 120
Anderegg, M., carving by, vi. 315; vii. 269; xv. 97
Andereggjoch, iv. 153
Andermatt in spring, xiii. 332
Andermatten, ix. 63
Andermatten, F., obituary notice, xi. 345
— fund, xi. 414
Anderson, E., obituary notice, xv. 69
Andes, ix. 384
— absence of snow on, v. 243
Andes, railroad across, viii. 425
— (Chilean), iv. 331
— — absence of glaciers, iv. 334
— — height of snow line, iv. 334
— — structure of, iv. 332
Andreis, M., accident to, xv. 540
Ane, Bec de l', *see* Mont, Grande Becca du
Aneroid barometer, the, ii. 397
Angiola, viii. 363
Anneçy, meeting at, viii. 54, 221
Antabbia Glacier Pass, ix. 369
Antaragua, Pass of, viii. 431
Antelao ascended, i. 437; vi. 402
— in winter, x. 495
— Pass, vii. 253
— without guides, xii. 128
Anti-Atlas, vi. 230
Antibes, ix. 139
Antigine, Pizzo d', *see* Spähnhorn
Antiquities in Ecuador, x. 184, 239, 373, 498
Antisana, viii. 448; x. 427
— ascended, ix. 513; x. 190
— attempted, x. 188
Ao-Rangi, *see* Cook, Mount
Aosta, P. iii. 383
— a correction, viii. 402
Apparei, Grand, ascended, i. 200; ii. 21; ix. 100, 481
— — Col du, ix. 100
— — height of, ii. 23
Aquila, viii. 360
Aquileia vi. 435
Ara Pietra, viii. 372
Aragon, adventure with brigands in, v. 247
Ararat, viii. 110; ix. 54
— ascended, viii. 208; ix. 318
— early ascents of, viii. 213
— landslip, xii. 10
Aravis, Col des, xii. 144
Arbenjoch, vii. 152, 320
Arbola, Passo del Gh. d', xiv. 153
— Punta d', *see* Ofenhorn
Arbole, Col d', P. iii. 267
Arcas, Pic des, without guides, ix. 90, 225
Archeboc, Pointe de l', ascended, xiii. 120
Arcines, *see* Ecrins
— Col d', i. 177
Arctic forms of vegetation, retreat of, v. 85
— regions, glaciers in, xii. 162, 305
Ardon river, xii. 210, 497

Digitized by Google

Arenal, the, x. 50
Argæus, Mount, ascended, ix. 384, 462
Argegno, road, xiii. 39
Argentera, Punta dell', ix. 340, 410; xv. 496
Argentière, Aiguille d', ascended, i. 375; ii. 108; x. 233
— Col d', P. ii. 231; i. 444; ii. 46
— — in winter, xi. 242
— Col de l', xi. 276; xiii. 29
— Glacier d', advance of, xii. 524
— — inn at, ix. 496; x. 112
— — new pass, xi. 116
— — retreat of, viii. 275
— Pointe de l', ascended, xi. 346
Arias, Aiguille des, ascended, viii. 99
— Col des, viii. 99
Arietta, Col de l', P. iii. 272
Ariondet, Tête d', ascended, xv. 545
Arkwright, Capt., accident to, ii. 382
Arly, valley of the, xii. 143
Arnas, Collarin d', xi. 357
— — Punta del, ascended, xi. 353
Arni, Cima dei, xi. 317
Arnstein, L., accident to, xi. 99
Arolla, vi. 20; viii. 94; xii. 265
— Col d', i. 137
— Combe d', viii. 1
— — structure of, viii. 8
— geology, viii. 16
— Glacier, dirt bands on, P. ii. 281
— — phenomenon on, x. 492
— inn at, v. 316; xi. 242
— Pigne d', ascended, ii. 134; v. 318; viii. 6
— — by N. face, xiv. 498
— — from the N.E., xiv. 498
— — sunrise from, vii. 269
— Reuse de l', Col de la, P. ii. 287
Arpille, accident on, xiii. 398
Arpisson, Croix d', P. iii. 268; viii. 304
Arpitetta, P. i. 146
Arpont, Col de l', i. 374; ii. 179; ix. 104
— Dôme de l', ascended, xii. 120
Arround, vi. 223
Arteréva, Col d', ii. 419
Arthur's seat, xii. 505
Arve, Aiguille d', ascended, vi. 290; vii. 136; viii. 57; xi. 109; xiii. 191
Arve, Aiguille d', Central Peak, vii. 150
— — Col des, i. 372; v. 128; viii. 68
— — Northern, ix. 96
— — Southern, ix. 95; x. 83
— — without guides, xii. 423
— Col d', viii. 65
Arvéron, cave of, accident in, xiii. 182
Arzalbl Sattel, vii. 26
Asco, x. 317
Ascoli Piceno, meeting at, xv. 77
Asinella, Val, v. 252
Astazou, Pic d', from the N., xiii. 197
Atanakerdluk, fossil remains, vi. 166
Atanan, peak near, xiii. 299
Atlas, vi. 220; xiv. 82
— Lesser, ascended, xiii. 40
Aubert, Col d', xii. 18
Augstkummenhorn ascended, xiv. 501
Auille, Cima dell', *see* Ouille, Cima dell'
Ault, Piz, ascended, x. 296
Aupillous, Pic des, accident on, xiii. 396
— — ascended, ix. 90; xiii. 117
— — without guides, ix. 225
Aurier Noire, Aiguille de l', viii. 96
— — Col de l', x. 358
Auronzo, inn at, viii. 453
Aussee, climate of, v. 272
Austabot-Tinder ascended, xiv. 508
Australia, glacial period, xiii. 495
Aution, vi. 180
Avalanche, etymology of, v. 346; vi. 99
— on the Eiger, v. 342
— on the Haut de Cry, i. 291
Avalanches, xii. 222; xiii. 546
— Col des, viii. 335; x. 224
— damage caused by, xiv. 163
— dangers from, ii. 276
— in Piedmont, xii. 260
— in winter, vi. 411
— on the Jungfrau, i. 184
Avartoli, Col d', x. 317
Avat, Piz, ascended, x. 296
Avedo, Paaso d', ii. 406
Averau, Torri di, ascended, x. 107, 180
Avérole, inn at, xi. 412
Avino, lake, xv. 266

Digitized by Google

Avio, Passo d', vi. 94
— Val di, vi. 305
Avril, Mont, ascended, P. i. 100; P. ii. 274
Ayas, Glacier d', P. ii. 268
Ayer, P. i. 148
Azzurra, Roccia, xii. 417, 517

Bacchu Ber Dance, xiii. 183
Bacone, Piz, ascended, xii. 179
Baden, meeting at, xv. 371
Badon, Rocher, ascended, viii. 329
Badus ascended, x. 296
Bächli Lücke, xiii. 485
Bächlistock ascended, xiv. 158; xv. 89
Bär, W., accident to, xiii. 391
Bärengrube, viii. 175
Bagion, Croda di, Forcella della, vii. 251
Bagnes, Mountains of, nomenclature, P. i. 124
— Val de, botany, P. i. 88
Bailletta, Pointe de la, ascended, xv. 296
Baillie-Grohmann, W. A., photographs by, xv. 96
Baker, G. P., photographs by, xv. 394
Baker, Mount, viii. 387; xii. 305
— — ascended, v. 357
— — botany, v. 359; viii. 396
— — geology, viii. 395
— — glacier on, viii. 234
— — height of, v. 366
Baksan valley, vii. 102
Balaitous ascended, xii. 20
— precipices of, v. 242
Baldegg, lake, vii. 268
Balfour, F. M., accident to, xi. 90
— obituary notice, xi. 101
Balfrinhorn ascended, i. 135, 188; ix. 110; x. 341; xi. 385, 414
Balfrinjoch, x. 97, 343, 359
Balitza, vi. 198
Balkar, xv. 38
Ball, Cima di, ascended, iv. 390; xiv. 296
— Glacier, xi. 13, 59
Ball, J., Alpine Guide, republication of, xv. 235, 372, 396
— Order of S.S. Maurice and Lazarus conferred on, ii. 91
— obituary notice, xiv. 469; xv. 16
Ball, L., accident to, xiv. 138
Ball, Passo di, vii. 335
Balloons for mountaineering, vi. 317
Balma, Monte della, ascended, xi. 360
Balmat, J., engraving of, xii. 342
Balme, Glacier de la, P. ii. 268
— inn at, xi. 412
— Rousse, Pointe de, ascended, xv. 294
Balmenhorn, ix. 310
— ascended, xii. 70
Balmhorn ascended, i. 378; vii. 441; viii. 273
— from the Gasterenthal, x. 161, 382
— new route up, xiii. 485
— in winter, v. 66
Baltal valley, iii. 151
Baltoro Glacier, xiv. 50
Baltschiederjoch, ii. 363; x. 21
Banachdich ascended, xv. 428
Banc, le, i. 165
Banche, le, vii. 15
Bans, les, ascended, ix. 93
Bára Lácha Pass, iii. 134
Barane, Col de la, xii. 20
Barbarossa, route of, vi. 372, 435
Barcelonnette, inn at, ix. 498
Bardoney, Col de, xii. 78, 417, 516
Bardonnèche, inn at, xi. 412
Barèges, Port de, xii. 18
Baretti, Colle, xiii. 489
Barga, xi. 325
Barker, Miss A., accident to, xiii. 432. 471
Barnard, G., obituary notice, xv. 282
— pictures by, vi. 160; vii. 168, 408; ix. 302, 513; x. 183; xi. 409; xii. 169; xiii. 339; xiv. 330, 344; xv. 97, 393
Barometer, determination of heights by means of, ii. 33, 63, 123; v. 218
Barometric standards, i. 315, 441; ii. 46
Barometrical stations, v. 269
Barone, Passo di, x. 149
Barrahath, vi. 388
Barrhörner, xv. 265
Barrhorn, Ausser, ascended, xi. 118
Basardjusi ascended, xv. 322
Bashil Glacier, xiv. 440
Basilsu Glacier, xiv. 89
Basodine ascended, viii. 341; ix. 60, 112, 171
— Passo del, vii. 154
Bassac, Col de, ii. 32; xii. 414
— Déré, Col de, ix. 101
— Mont, ascended, ii. 207, 390; xii. 414
— Petit Mont, ascended, ix. 101, 483

Digitized by Google

Bassagne, Col de, xiv. 491
Battaglia, Bocca, x. 319
Batwarri, vi. 389
Baula ascended, i. 360
Baumann, J., death of, xv. 457
Baus, Cima del, height of, x. 46
Bausa Marza, Forcella di, vii. 15
Bavona, Passo di, x. 99
Bayazid, viii. 216
Bazel, Pointe de, ii. 208; xv. 154
— — ascended, ix. 101; xiv. 489
Bean, J., accident to, v. 188, 196
Bearne, Miss, pictures by, xv. 167
Beaume-Pluvinel, Cte. de la, accident to, xi. 343
Beaumont, Mount, xi. 139
Beaver Glacier, xv. 421
Bêche, Mount de la, xi. 139
Becco, Cima del, ascended, xii. 194
Beck, Herr, photographs by, ix. 239; xi. 178, 410; xii. 170
Bedole hut, vii. 462; x. 112
— Malga of, v. 186
— Vedretta di, ii. 14; v. 187
Befrings Skar, xiv. 506
Behr, W, accident to, xv. 540
Beichgrat, i. 378, 434
— hut, xv. 447
Bel Pra, Monte, Forcella di, vii. 243
Belfort, meeting at, xiii. 482
Bell' Alda, Salto della, accident on, xv. 541
Bella Vista Pass, i. 380
Bellagarda ascended, xi. 369
Bellavona, Bocca, x. 316
Belledonne, Croix de, accident on, xv. 275
— Grand Pic de, ascended, viii. 329, 330
— Pic Central, xi. 107
Belluno, vi. 128
Belpole hut, iv. 353
Ben Lomond in winter, xi. 480
Ben Nevis in winter, xi. 182, 480; xii. 507
Bennen, J., accident to, i. 288
Bérarde, la, P. iii. 187, 205, 211
— Crête de la, *see* Vallon, Pic du
— inn at, ix. 230; xi. 411; xii. 175; xiii. 184, 419, 460
— Pic de la, *see* Ecrins, Dôme des
— Vallon de la, Col du, *see* Avalanches, Col des
Berceau, le, ix. 153
Berches, les, vii. 315
Berches, Col des, ix. 361
Bérenger, Col de, iv. 384
— Pierre à, hut at, vii. 337
Bergaigne, A., accident to, xiv. 139
Bergamo, viii. 93
Bergen, iii. 77
Bergli hut, ii. 224; vii. 164; xi. 242
Berglistock ascended, iv. 156
Bergün, inn at, iv. 238
Bergwerkskopf ascended, xiii. 565
Bering's Great Glacier, xiv. 168
Bernarde, Mont de la, vii. 400
Berne, exhibition at, xv. 571
Bernier, Mont, ix. 169
— — ascended, ix. 98
Bernina arête, viii. 109
— district, photographs of, xiv. 516
— glaciers of, P. ii. 135
— Pass, inn on, iv. 238
— Piz, accident on, xi. 343, 436
— — and Piz Morteratsch, pass between, viii. 160
— — ascended, P. ii. 146; ii. 359; ix. 168
— — attempted, i. 347
— — by the Bernina Scharte, xii. 180; xiv. 159, 280
— — by N.E. face, xv. 314, 468
— — by the Rosso di Scerscen arête, xii. 422
— — early ascents of, P. ii. 184
— — from the Tschierva Glacier, x. 100
— — in winter, ix. 492
— — lost on the, ix. 118, 162
— — new route, x. 283
— — tour of, iv. 238
— — without guides, xi. 182, 247
— Scharte, xii. 180; xiii. 50, 302; xiv. 159, 280
Bertol, Col de, ii. 133; v. 315; vi. 29
— Dents de, ascended, xiii. 410
— — Col des, xiii. 410
— Pointe de, ascended, xv. 304
Besimauda ascended, xi. 302, 370
Bessanese ascended, vii. 316; xi. 354
— by N. arête, xiv. 496
Bessans, inn at, xi. 412; xiv. 519
— Uja, *see* Bessanese
Bessée, la, P. iii. 232
Besso, Lo, P. i. 146
— — from le Blanc, xv. 546
Bessonnes, Têtes, ascended, xii. 114
Betsho, xi. 473; xii. 97; xiii. 358, 510

Digitized by Google

Betsho Pass, xiii. 358, 501, 511
Betta Furka, iv. 69
— — in 1840, xv. 49
Bevers, Piz, x. 162
— Val, v. 283
Beyer, H., accident to, ix. 493
Bezingi, iv. 165; vii. 101; xii. 93; xiii. 222, 251; xiv. 180
— Glacier, xiii. 367
Bhasteir, Sgurr, xv. 433
Bianca, Bocca, x. 319
— Punta, xv. 440
— — ascended, xiv. 483
Bianco, Pizzo, i. 201
Bibliography, *see* Alpine Bibliography
Bicocca, Colle della, ix. 346; x. 458
Bider, G., accident to, xiii. 391
Bidien-drum-nan-Ramh ascended, xiii. 436
Bieliger Lücke, xii. 179
Bienne, meeting at, xiii. 481
Bieshorn ascended, xii. 122, 255, 360
Biesjoch, i. 376; viii. 108, 381
— — lake on summit of, v. 135
— — variation of, v. 307
Bietschhorn ascended, i. 353; v. 277; vi. 114
— by S.E. arête, ix. 111; x. 20
— from the S., xii. 124
— hut, x. 487
— without guides, xii. 128, 180, 479
Biferten Glacier, P. i. 399; iii. 158
Bifertenstock from the Frisal Glacier, xv. 92
Big Glacier, the, xiv. 58
Bignasco, vi. 300; ix. 61; x. 63
— inn at, xi. 304
Bignone, Monte, ix. 153
Bildstöckljoch, accident on, xiv. 457; xv. 156
Billian, Col de, i. 296
Bingöl Dagh, ix. 183
Binn, inn at, xi. 481
Bionaz, inn at, vii. 50
Bionnassay, Aiguille de, ascended, ii. 132, 321
— — by E. arête, xiv. 150
Biram Ghatee, vi. 393
Birchfluh Pass, *see* Beichgrat
Birkbeck, J., obituary notice, xv. 277
Birkenkofljoch, vii. 23
Bischoff, J., accident to, vi. 97
Bischofsmütze ascended, ix. 495
Biscie, Forcella della, vii. 19
Bise, Cornettes de, accident on, xiii. 53
Biselx, Tête, ascended, xi. 486
Bistenen Pass, ii. 317, 426
Björnetind ascended, xiv. 386
Black, A. J., pictures by, xv. 167
Blaitière, Aiguille de, vi. 293
— — ascended, vii. 105, 318, 422 viii. 106
Blanc, Glacier, Col du, i. 74, 176 vii. 139; x. 268
— — Crête du, i. 166; vi. 291; vii. 139; ix. 359
— — Pic du, viii. 114
— Mont, accident on, 1864, i. 384
— — accidents on, 1866, ii. 382
— — accident on, 1870, v. 188, 193
— — — 1877, ix. 48
— — — 1890, xv. 274
— — — 1891, xv. 539
— — Albert Smith's ascent, xv. 371
— — ascended, ii. 365; iii. 75
— — — by a girl, xiv. 164
— — — in a sledge, xv. 326
— — by balloon, v. 377
— — crossed, vi. 90, 168, 293; ix. 105
— — De Saussure's ascent, xiii. 556
— — first ascents, viii. (app.) 6
— — French map of, ii. 421
— — from the Aiguille de Gouter, xiv. 142
— — from the Brenva Glacier, ii. 132, 369; v. 135; xiv. 404
— — from the Brouillard Glacier, vi. 384; viii. 337, 409
— — from the Col du Géant, xiv. 151
— — from the Col de Miage, xiv. 150
— — from Courmayeur, i. 136, 201; ix. 171; xv. 552
— — from the Glacier du Dôme, xv. 554
— — from the Glacier de Miage, iv. 261
— — from the Pierre Pointue, i. 431
— — geology, xii. 6
— — Hamel, Dr., accident to, i. 141, 332; viii. (app.) 10
— — hut on, xv. 328
— — in spring, vii. 268
— — in winter, vii. 436; x. 494; xi. 242, 257; xiii. 467, 549; xiv. 325
— — MS. of Reilly's map, xiii. 292
— — map-drawing in the chain of, ii. 246
— — observatory on, ii. 220
— — ode to, ix. 446

Digitized by Google

Blanc, Mont, position of summit, xiv. 170
— — range, huts, vii. 168; ix. 235
— — relics of guides lost, i. 141, 332
— — round, v. 289
— — storm on, v. 195
— — survey of, i. 257
— — table of heights, xv. 553
— — three days on top of, xiii. 557
— — tunnel under, vi. 436
— — views of, xii. 8, 137
— — W. face of, ii. 107
Blanc de Cheillon, Mont, ascended, ii. 364; iv. 205; vi. 25
— — — by E. arête, xiii. 411
Blanc de Pralognan, Mont, x. 491
Blanc du Tacul, Mont, ascended, xi. 362
Blanche, Dent, ii. 368
— — accident on, xi. 97
— — ascended, i. 33; ii. 134, 292
— — by S. arête, v. 277; viii. 114, 376
— — by S.E. face, xiv. 499
— — by W. arête, xii. 122
— — Col de la, ix. 172
— — early ascents of, xv. 64
— — from the Schönbühl Glacier, vii. 107, 427; xv. 370
— — from Zinal, xi. 119, 158
— — night adventure on, xv. 404
— — routes up, xiii. 161
— — without guides, xii. 424, 526
Blanche, Tête, i. 93
— — ascended, P. ii. 335
Blanche de Peuteret, Aiguille, accident on, xi. 90
— — — ascended, xii. 419, 431
Blanchet, Col, x. 354
Blanchets, Corne des, ascended, xv. 292
Blanchisseuse, Col de la, x. 98
Blancien, Bec de, viii. 94; xii. 523
— — ascended, viii. 15; ix. 365
— Col de, ix. 365; xv. 261
Blaueisspitze ascended, xiii. 273
Blángny Jökull, vii. 51
Blath Bheinn ascended, xv. 426
Blaven range, xiii. 433
Blegno, Val, iii. 167
Bleu, Lac, xii. 18
Blinnenhorn ascended, ii. 410; viii. 340; ix. 58
Blinnenjoch, viii. 340
Blümlis Alp ascended, i. 359; iv. 384
— — from the Tschingel Glacier, vii. 325; x. 360
Blümlisalphorn ascended, ix. 439
Bobbio, P. iii. 145
Bodö, vii. 169
Böhm, E., accident to, xv. 225
Börterrück ascended, xiv. 501
Bösch, H., accident to, xiv. 476
Bœufs Rouges, Col des, viii. 342; x. 87
— — Crête des, ascended, viii. 333; x. 87
— — Tête des, ascended, viii. 342
Bœverdal, v. 154
Bognelvdal, P. iii. 435
Bogong range, xiii. 494
Bohren, P., obituary notice, xi. 44
Boiling points, French and English, ii. 46
Bois, Glacier du, movements of, xiii. 199, 492
— le, inn at, ix. 238
Bojumsbræ, v. 56
Bojumsdal, v. 56
Bondasca Glacier, accident on, xiii. 432, 471
Bondo, Forcella di, ii. 137
Boner, P., accident to, xiii. 399
Bonhomme, Col du, in 1843, xv. 125
Bonington, R. P., pictures by, xv. 97, 393
Bonnepierre hut, xi. 241
Bonneval, P. iii. 353
— Col de, xii. 412
— inn at, xi. 412; xiv. 518
— Punta, ascended, xii. 412
Bonney, Col, viii. 102; ix. 77; xii. 85, 418, 520
Bonvoisin, Pic, ascended, ix. 359; x. 142
Boordooil, *see* Bordjula
Boqueta Pass, xiii. 561
Borckhardt, F. C., accident to, xiii. 95, 167, 264, 421
Bordier, ix. 327
Bordj Boni, xiv. 76
Bordjula ascended, xv. 317, 319, 518
Bormio, baths of, v. 179
— botany of district, v. 177
Borszek, iii. 27
Bortelhorn, from the N., xiv. 503
Borzago, Val di, ix. 305
Bosco, ix. 62
— Cima del, ascended, vi. 178
Boscolungo, vii. 388
Bosio, Capt., his peril, iv. 356
Bosnia, hints to travellers, xiv. 429
Boss, E., 'Back grant' given to, xii 64

Digitized by Google

Boss, E., obituary notice, xiv. 67
Bosses du Dromadaire, proposed hut on, xiv. 325
Bossons, Glacier des, advance of, xii. 523; xiii. 199, 492
— — in 1800, vii. 433
— — in winter, v. 72
Bot, Pierre à, P. i. 414; xii. 158
Botany, xii. 358
— Ætna, P. 1. 489
— Alpine, v. 97
— Arctic vegetation, retreat of, v. 85
— Bormio, v. 177
— By, P. ii. 260
— Cantal, x. 39
— Col de Seylières, P. iii. 143
— Corsica, iv. 293, 308
— Diablerets, v. 106
— Dolomites, vii. 167
— Doron valley, P. iii. 357
— Engadine, P. ii. 185; ii. 423
— Faulhorn, v. 108
— Fernando Po, vi. 3
— Grindelwald, v. 107
— Himalayas, xv. 119
— Iceland, P. ii. 125
— Lac d'Oo, P. iii. 123
— Linth Thal, P. i. 399
— Männlichen, v. 109
— Monte Majella, viii. 371
— Monte Viso, P. iii. 139
— Mount Baker, v. 359; viii. 396
— New Zealand, xi. 12, 59, 137
— Norway, iv. 19
— Papaver Alpinum, v. 76
— Pelmo, vi. 368
— Pic des Posets, P. iii. 114
— Pontresina, v. 110
— Pyrenees, ii. 47; vii. 367; xii. 23
— Riffelberg, v. 109
— St. Moritz, v. 273
— San Martino, xiv. 301
— Saxifrages, vii. 364; viii. 40
— Sierra Nevada, iv. 115
— suggestions, P. i. 514
— Trift Pass, P. i. 153
— Trugberg, P. i. 321
— Val de Bagnes, P. i. 88
Bottarello, Pizzo, ascended, xiv. 503
Botzen, meeting at, xv. 76
Botzeresse, Aiguille de, ascended, xv. 299
Bouchet, Bric, ascended, x. 352
— Col du, ix. 103
Bounty fund for guides in the Ortler district, xiii. 481
Bouquetin in the valleys of Cogne, P. iii. 263
Bouquetins, Col des, P. ii. 322; i. 64, 92; vi. 145
— Dents des, viii. 13
— — ascended, vi. 28; viii. 133, 224; xiii. 410, 454, 529
— — by W. face, xiv. 498
Bourcet, Pic, ascended, xiii. 404
Bourrit, ix. 11
Bousson, Pointe du, ascended, ix. 100, 480; xiii. 119
Boval, P. ii. 157
Bove, Val di, P. i. 486
Boveyre, Col de, *see* Panosseyre, Col de
Bowfell in winter, v. 35
Bozel, P. iii. 356
— inn at, xii. 271
Bradley, J. M., accident to, xiii. 398
Bradley, Miss, pictures by, xiii. 339
Brahmins, prejudices of, vi. 389
Brandenbergthal, vii. 93
Brandis, A. von, accident to, xiv. 140
Brantschen, J. (1), death of, ix. 373, 438
Brantschen, J. (2), accident to, xv. 274
— fund, ix. 381
Braun, M., photographs by, ii. 48
Breathing at high altitudes, vii. 102, 119; viii. 281; ix. 68; xi. 208, 402; xii. 42, 105; xiii. 1, 563
Bregaglia, Val, i. 256
Bregenzer Wald, ii. 154
Breida-merkr Jökull, P. ii. 64
Breilhorn, x. 423
Breithorn ascended, P. ii. 343
— — by Queen of Italy, xiv. 511
— by N.W. arête, xiv. 152
— first ascent, P. iii. 260; viii. (app.) 29; xv. 437
— from the north, v. 44; vii. 420; viii. 384
— from the Schwarzthor, xii. 121, 246
— in winter, xiii. 549
— (Oberland) ascended, ii. 209; xi. 120; xii. 480; xiii. 190
— round the, ii. 413
Breitlauihorn ascended, xii. 123
Brekke-tind ascended, xiv. 509
Bremble, J. de, xiii. 271
Breney, Col de, ii. 134; vi. 366
Brenta Alta ascended, ii. 148; vi. 148
— — nomenclature, vii. 46
— Bassa ascended, xi. 123; xi. 317

Digitized by Google

Brenta, Bocca di, i. 443
— — hut, x. 489
Cima di, ascended, xi. 123, 318
— Crozzon di, ascended, xi. 123, 315; xii. 126, 525
— group, vii. 463; xi. 413
— Torre di, ascended, xi. 122, 313
Brentolina, *see* Brenta Bassa
Brenva Glacier, ii. 370; v. 135; xiv. 404
Bresciana Pass, iii. 172
Breslauer Hütte, xiv. 458
Breuil, inn at, vii. 50
Brévent, circular rainbow on, xii. 173
— death on the, xiv. 141
Brevières, P. iii. 350, 391
Briançon, inn at, x. 488
— meeting at, xiii. 183
— railway to, xii. 174
Bric Froid ascended, xi. 351
Bride-les-Bains, P. iii. 356; ii. 312
Brigands, Pyrenees, v. 246; vi. 72
Brigelserhorn ascended, x. 308
Brione, x. 148
Bristenstock, vi. 337
— ascended, P. i. 353; x. 307
Brocken, spectre of the, xi. 370, 482
Broglia, *see* Brouillard
Broglio, Punta del, ascended, xiv. 466, 482
Brouillard Glacier, viii. 337, 409
— — accident on, vii. 110
Brouis, Col de, vi. 178
Brown, Mount, viii. 386
Brulé, Mont, ascended, viii. 133
— — Col du, P. ii. 285; i. 63; v. 325, 355; viii. 136
— — nomenclature, viii. 96
Bruna, la, hut, xii. 417
Brunberg ascended, xiii. 485
Brunegghorn ascended, ii. 209; viii. 108, 338
Bruneggjoch, i. 432; viii. 108
Brunig Pass, extinct glacier, P. i. 413
Brunni Pass, ii. 216; vi. 332
Brunod, G., accident to, xv. 273
Brusadaz, vi. 261
Brusau, Forcella di, vii. 252
Brussone, inn at, P. ii. 399
Bûche, Col de la, *see* Etala, Passage de l'
Bucses ascended, iii. 37
Budden, Colle, xv. 260
— Punta, xii. 85
Budden, Punta, ascended, xii. 418, 509
Büdös, iii. 36
Buet, ii. 53
— early accident on, xiii. 130, 179
— history of, ix. 6
— in 1839, xv. 43
— in winter, x. 494; xi. 259
Burdjula, *see* Bordjula
Burnaby, Mrs., photographs by, xii. 464
Burne-Jones, P., pictures by, xv. 509
Burney, Mount, height of, iv. 329
Busala Pass, xv. 113
Busazza attempted, xi. 122
Buscagna, Passo di, xi. 397
Buserailles, Gouffre du, ii. 271
Buspa valley, iv. 83
Butterflies, Himalayas, xii. 46
By, botany, P. ii. 260
— Tête de, P. ii. 259

CABALLO, Cerro del, ascended, iii. 8; iv. 123
Cabione, Passo di, x. 149
Cader Idris ascended, xii. 366
Cadi, Sierra de, vi. 59
Cadino, Cima, Forcella della, vii. 20
Cæsar's Pass, xi. 295
Cagliari, viii. 123
Calabre, Col de, xiv. 491
— Pointe de, ascended, xiv. 491
— Punta, *see* Bazel, Pointe de
Calacuccia, x. 315
Calanda, P. i. 397
— stone whirlwind on, iv. 217
Caldera, Lago di, iv. 121
Calfeuser Thal, P. i. 393
Californie, xiii. 177
Calvi, x. 321
Camadra Pass, ii. 135; iii. 167
Cambrena Sattel, ii. 212
Cameroons Mountains, xiv. 253
Camosci, Punta dei, ascended, xiv. 493; xv. 295
Campbell, Mr., accident to, xv. 126
Campedoggio, Bocca di, x. 332
Campestrin Pass, vii. 254
Campidello, vii. 352
Campiglia, P. iii. 273
Campiglio, viii. 166
— inn at, v. 251; vi. 430; vii. 462
Camping out, ii. 1
Campo, Corno di, ascended, ii. 408

Digitized by Google

Campo Moro, Val, P. ii. 142
— Tenca, Passo di, vi. 299
— — Pizzo di, ascended, vi. 299
Campoduro, Passo, vii. 19, 256
Campol, Forcella di, vii. 264
Camuzzi, Bocca dei, i. 436; v. 257; vii. 108
Canaje, vi. 140
Canale, vii. 45
— Val di, iv. 387
Canali, Cima di, ascended, ix. 371
— Passo di, ii. 137
Canaon, Port de, xii. 21
Canard, Aiguille du, ascended, xi. 346
Canariz, v. 123; vi. 66
Canciano, Passo di, P. ii. 141; i. 348
Cantal, botany, x. 39
Cantaro Magro ascended, v. 127
Canzoi, Val, x. 69
Capilleria, iii. 10; iv. 122; xiii. 82
Cappella di Monte, x. 66
Capronale, Col de, x. 324
Capucin, Mont, ascended, xv. 545
Capütschin Pass, P. ii. 136
Caramanico, viii. 363
Carassina, Val, iii. 168
Cardal, Port de, xii. 25
Caré Alto ascended, ii. 214; vi. 304
Carihuairazo, viii. 448
— ascended, x. 433
Carle, Madame, Pré de, i. 70; ix. 224; xiii. 270
Carranqui, x. 373
Carrara, vii. 374; viii. 356
— mountains, xi. 324
Carré, Glacier, Pic du, ascended, xv. 293
Carrel, Chanoine, monument to, vii. 398; viii. 114
— — obituary notice, v. 270
Carrel, J. A., xv. 332
— death of, xv. 274
— fund, xv. 446
— obituary notice, xv. 284
Carrelet hut, x. 488
Carro, Cima del, xiii. 407
— Col di, iii. 115; viii. 104
Casa Dio, Monte, Pass, vii. 245
Cascade range, iii. 214; viii. 236
Casse Déserte, Col de la, i. 198; vi. 289, 291, 365; vii. 86, 141; x. 91, 267
— Grande, viii. 225
— — ascended, P. iii. 374; viii. 101
Casse Grande, by N. face, xiv. 270
— — Col de la, viii. 101
— — from the N., xiii. 405
— — hut, xii. 271
— — hypsometry, i. 119
— — second peak of, xi. 365
Castagneri, A. (1), accident to, iv. 61
Castagneri, A. (2), accident to, xv. 274
— — obituary notice, xv. 289
Castagneri, Passo, xii. 195
Castanèze, i. 383
Castani, lake, xiv. 356
Castel Delfino, P. iii. 150
— — inn at, ix. 498
— Toblino, vii. 466
Castellaccio, Passo, xv. 363
Castello, Col di, ii. 414
— Colle, vii. 28
— Monte, vii. 155
Castelnau, Col de, ix. 362; x. 266
Castelnuovo, vii. 382
Castilian chain, vi. 62
Castor ascended, P. ii. 405; viii. 378; xv. 364
— without guides, xii. 128
Catania, P. i. 476
Cathkin peak attempted, xiv. 400
Catsuperry lake, x. 6
Caucasian critics, xii. 320
Caucasus, accident in, xiv. 99, 432; xv. 26
— early explorers, iv. 166; xiv. 314
— edible plants, iv. 247
— exploration in, v. 376
— fever in, xiii. 376
— glaciers, xii. 324; xiii. 367
— high-level routes, xv. 254
— hints for mountaineers, xiii. 257, 376; xiv. 24
— inhabitants, iv. 249
— Mr. Donkin's journey, 1888, xiv. 311
— moraines in, xiii. 367
— new maps, xiv. 57
— nomenclature, xiii. 229
— requisites for, xiii. 258
— search expedition, xiv. 432; xv. 26
— structure of, iv. 241
— topography, xii. 320; xiv. 452
— travelling in, xi. 471; xv. 372 527
Cavadiras Pass, vi. 332
Cavagnoli, Passo di, x. 99
Cavale, Pas de la, ix. 362; x. 143

Digitized by Google

Cavales, Col des, i. 170, 198, 313; ix. 362; x. 266
— — variation of, vi. 288
Cavallo, Monte, ascended, vi. 142
Cavel, Fuorcla de, x. 487
— Piz, ascended, x. 296, 487
Cavento, Corno di, ascended, xiii. 567
— Passo di, vi. 305
Cavergno, x. 65
Cavrein Pass, vi. 332
Cavrera, adventure near, x. 151
Cayambe, viii. 448
— ascended, x. 245
Cayolle, Col de la, ix. 336
Cedeh, Passo di, v. 285
Ceja Glacier, xii. 216, 314, 497; xiv. 452
— — retreat of, xiii. 41
— Pass, xiv. 437
Cencenighe, inn at, viii. 115
Ceneda, vi. 134
Cengia del Banco Pass, vii. 244
— Forcella di, vii. 31, 258
— Passo di, *see* Oberbacherjoch
Cenis, Mont, xi. 292
Ceppo, Capo al, x. 324
Cercen Pass, accident on, xiii. 114
Cerentino, ix. 62
Ceres, new carriage road from, to Lanzo, v. 177
Cerésole, v. 176
— inn at, P. iii. 281; x. 487; xi. 369, 412; xiv. 325, 518; xv. 447
— Pointe de, *see* Lune, Pic de la
— Scalare di, P. iii. 280
Cerru, Col de, ix. 100
Cervendone, Pizzo del, ascended, xiii. 126, 163; xv. 535
Cervières, inn at, xii. 175
Césanne, inn at, x. 487
Cetinje ascended, xiv. 418
Cevedale, Monte, accident on, ix. 114, 162; xiv. 476
— — ascended, ii. 341; iv. 46; vi. 302
— — in winter, ix. 492
— — without guides, x. 498
Chaberton, Mont, ascended, xi. 112
Chables, P. i. 85
Chabourneau, Cime de, *see* Verdonne, Pic
Chaillol Cône ascended, ix. 358
— Jumeaux de, E. peak of, xiii. 401
— Vieux ascended, ix. 361; x. 144
Chaix hills, xiii. 91; xiv. 354
Chakung-la Pass, xv. 117
Chalance, Col de, without guides, ix. 91, 231
Chalanson, *see* Collerin, Mont
Challant, Val, x. 160
Chambeyron, Aiguille de, ascended, ix. 349; x. 131
— Brec de, ascended, ix. 351; x. 135
Chamchachi, xii. 500
Chamois, Brêche des, viii. 104
— Col des (1), vii. 315; x. 266
— Col des (2), xv. 259, 544
— Pattes des, Pointe des, *see* Camosci, Punta dei
Chamois hunting, iv. 129
Chamonix, fête at, xiii. 556
— Glaciers, viii. 275
— — advance of, xii. 523
— guides, P. i. 525; v. 190, 297; vi. 306, 372, 421; vii. 42; ix. 308; xi. 459
— in 1800, vii. 433
— in 1830, xi. 476
— in winter, vi. 406
— monument to de Saussure, xii. 464
— new school for, vi. 152
Champagne Castle ascended, xiv. 56, 398
Champagny, P. iii. 356
Champéry, pension at, i. 96
Champey, Lac, i. 47; xv. 257
— Val, i. 47; ii. 45
Champoléon, Loup de, Col du, xii. 115
— Val, ix. 361
Chancel hut, x. 489
Chandolin, i. 94
Chandra valley, iii. 129
Chang-la Pass, *see* Kang-la Pass
Chanrion, xv. 537
— hut at, xv. 324
Chanrousse, Croix de, viii. 446
Chapeau Rouge, Pas du, xii. 116
Chapin, F. A., photographs by, xv. 234
Charbonel, Pointe de, ascended, viii. 102
Chardon, Col du, viii. 335
Chardonnet, Aiguille du, ascended, ii. 209; iv. 144
— — attempted, x. 233
— — by S.E. face, xv. 364
— — from the Glacier du Tour, ix. 364; xi. 262
— Col du, i. 267; iv. 60; v. 295
— — in winter, xi. 242
— Mont, *see* Charbonel, Pointe de

Digitized by Google

Charforon ascended, xi. 369
— Col du, *see* Monciair, Col de
— from the north, xiv. 150, 289
Charles the Great, legend of, vii. 447
Charmoz, Aiguilles des, accident on, xiii. 182
— — ascended, x. 357
— — attempted, x. 397
— — N. peak, x. 95 ; xiii. 408
Charnier, Col de, xiv. 219
Charrière, Brèche de, vi. 289, 365 ; vii. 86, 140 ; viii. 164 ; x. 267
— — without guides, xii. 424, 533
— Tête de, x. 267
— — ascended, viii. 342 ; xi. 109
Chartreuse, Grande, i. 179
— — accident on, xii. 109
Chartreuse du Reposoir, xii. 137
Chasseforêt, Dôme de, ascended, xii. 119
— hut, xii. 271
Chateau des Dames ascended, P. ii. 310
Châtelard, Pointes du, ascended, xiii. 407
Châtelleret hut, xi. 412
Chatillon, inn at, x. 161
Chaughan, Thibetan game of, iv. 196
Chauve, Mont, ix. 153
Chaux, Col de la, xi. 238
Chavière, Col de, P. iii. 401 ; ii. 316
Checruit, Col de, vii. 400
Cheesemaking, P. i. 374
Chegem valley, xiv. 453
Cheillon, Col de, vi. 26 ; vii. 216
Cheiron, ix. 147
Chellata, Col de, xiv. 75
Chemerno Pass, xiv. 418
Chenee, iv. 80
Cherbadung, *see* Cervendone
Chéret, Tête de, ascended, xi. 109
Chermontane, derivation of, P. i. 103
— Col de, P. ii. 273 ; vi. 29
— — variation of, i. 377
— Glacier de, *see* Otemma, Glacier d'
Chester, Mr., accident to, iv. 375; v. 24
Cheville, Col de, in 1840, xv. 56
Chèvres, Pas de, P. i. 108 ; viii. 3, 143 ; xiii. 449
Chhorten Nyima Pass, xiii. 28
Chianale, Val de, P. iii. 153
Chiareggio, viii. 22
Chiarena, la, ascended, iv. 50
Chible, Grande, Pointe de la, ascended, xii. 112
Chichigalpa, i. 227
Chichilienne, P. iii. 215
Chiesa, P. ii. 139
— inn at, viii. 115
Chifflet, Abbé, accident to, xii. 343, 406
Chimborazo, v. 243 ; viii. 448
— alleged ascent in 1856, x. 226
— ascended, ix. 489, 513 ; x. 53, 436
Chini to Cashmere, vii. 259
Chiri-vsek, xv. 316
Chola Pass, xv. 114
Chomiomo attempted, xii. 35
Chosica, la, viii. 426
Christomet, Croix de, xii. 141
Chubiani, xiii. 372, 512
Chumulari, x. 4 ; xii. 29
Chuquipoquio, x. 55, 432
Church, F. J., obituary notice, xiii. 465, 571
Churches, English, in Switzerland, iii. 209
Ciamarella, xii. 119, 412
— ascended, ix. 474 ; xi. 355
— Col della, iii. 114 ; vii. 317 ; xi. 355
— from the Col de Séa, ix. 99
— in winter, x. 494
— Piccola, ascended, xi. 355
Cian, Dôme de, xv. 263
Ciardonnet ascended, xv. 298
— Bec de, xii. 523
— — ascended, xi. 116
Ciastelins, Forcella di, vii. 250
Ciaussine, Crot del, hut, x. 488 ; xi. 412
Ciche, Sgor na, xiii. 474
Cillorigo gorge, vi. 69
Cimolais, vi. 144
Cimone, vii. 388
Cineraggia, Bocca di, x. 319
— Col de, xi. 450
— Monte, x. 319
Cinque Torri ascended, x. 107, 180
Cinto, Monte, x. 208
— — ascended, xi. 452
— — round, x. 314
Circular rainbows, xi. 482 ; xii. 172, 271 ; xv. 329
Civetta, Monte, ascended, iv. 42
— — without guides, xii. 128
Clach Glas, xiii. 445
Claire, Col de, ix. 362
Claphouse, Pointe de, ascended, xv. 292

Digitized by Google

Clapier, Mont, ascended, ix. 343
— — Passo di, ix. 343
Clapier du Peyron, Pic du, ascended, xiii. 117, 403
Clarahütte, xii. 263
Clarence peak ascended, vi. 17
Clariden Grat, i. 95, 134
Claux, i. 69, 153
Clelles, inn at, x. 488
Cleuson, Col de, xi. 238
Cleveland peak, xiii. 93
Climber and gymnast, xv. 224
Clochâtel, Col de, viii. 333
— Montagne de, ascended, viii. 334
Clothing for mountaineers, P. i. 497
Cloud streamers, i. 208
Cluozza, Val, v. 203
Coal Glacier, xiv. 360
Cocagna, v. 175
Cocco, Forcarella, x. 150
Cogne, P. iii. 269; vi. 84
— bouquetin, P. iii. 263
— guides, xii. 84
— inn at, x. 487
Coimbra, v. 123
Coire-na-Creiche, xiii. 437
Cole, H. W., obituary notice, viii. 56
Coleman, E. T., pictures by, vi. 384; xiii. 463
Collanes, valley of, x. 429
Colle, Il, xi. 303
Collerin, Col du, iii. 113
— — accident on, iv. 61
— Mont, ascended, xii. 117, 411
Collier, Sir R., pictures by, vii. 168; ix. 302
Collingwood, W. G., pictures by, xv. 97, 167
Collon, *see* Colon
Colloney, Pointe du, xii. 149
— — ascended, xii. 13
Colon, Col de, P. ii. 285; v. 355; vi. 29
— — in 1543, xiv. 407
— — in 1843, x. 44; xv. 138
— Crête à, P. ii. 276
— — demolished, P. ii. 300
— Mont, viii. 13
— — ascended, ii. 414; iv. 56; v. 350; viii. 133, 383; xiii. 454
— — by N. face, xv. 305
— Petit Mont, ascended, xv. 305
Colouret, Grand, xv. 129
Colours of shadows, P. ii. 169
Comballaz, pension at, i. 96
Combeynot, Pic de, ascended, xii. 113
Combin, Grand, ascended, P. i. 116; iv. 384; vii. 398; ix. 106; xv. 444
— — by S. side, vi. 443
— — by S.E. arête, xv. 544
— — first ascent, ix. 28
— — from the Sonadon, vii. 265, 319
Combin de Corbassière ascended, P. i. 92; ix. 28
— Petit, ascended, xv. 300
Combloux, xii. 141
Comboë, Alp of, P. iii. 265
Compass, xv. 357
Compton, E. T., pictures by, ix. 448; x. 183; xi. 192, 410, 486; xii. 169, 463; xiii. 463; xiv. 328, 343; xv. 96, 167, 507
Concorde, Place de la, P. i. 292
Condamine, Glacier de, P. iii. 188
Condy, Pierre de, xii. 158
Confinale, Monte, ascended, i. 382, 387
Consiglio, Bosco del, vi. 134
Constance, Mount, xii. 305
Constantia hut, xiv. 519
Consumption, the Alps and, v. 271
Cook, Mount, xi. 1; xii. 164, 339
— — ascended, xi. 129
— — attempted, xi. 57; xv. 445
— — botany, xi. 59
— — height of, x. 418; xi. 133
— — (Alaska), viii. 386
Coolidge, Pic, ascended, ix. 91, 229
Coolins, map of, xv. 447
— the black, xiii. 433; xv. 422
Corazon ascended, ix. 513; x. 116
Corbassière, Glacier de, P. i. 90; v. 311
— — hut, x. 489
Corbett, M. R., pictures by, xv. 167, 509
Corbett, Miss, accident to, x. 365
Cordier, Brêche, xiii. 404
Cordier, H., accident to, viii. 284
Cordina, Monte, xv. 258
— — ascended, xv. 544
Cordon, Tête de, xv. 258
— — ascended, xv. 545
Corjon, Dent de, accident on, xiii. 398
Corkendal, Mr., accident to, v. 188, 196

Digitized by Google

Corneille, Col de, ii. 315
Cornelle, Passo delle, iv. 397; vii. 64
— — variation of, viii. 109
Cornère, Val, Col de, P. ii. 309
Cornier, Grand, ascended, ii. 133
— — by S. arête, xiii. 409
— — by W. face, xii. 122
— — Col du, i. 431; v. 350; viii. 377; ix. 172
— — — without guides, x. 419
— — from the N., ix. 106, 239
— — record on, xii. 467
Cornisello, Passo di, x. 104
Cornu, Lac, ancient glaciers, ii. 62
Corona, Monte, x. 319; xi. 450
Coronelle Pass, xii. 185
Corps, inn at, x. 488
Correspondents, 'our own,' xi. 176
Corridors de la Meije, Col des, ix. 362
Corrie Labain, peak at head of, xiii. 441
Corse, Cap, x. 210
Corsica, iv. 269, 289
— botany of, iv. 293, 308
— climate, iv. 305
— fauna of, iv. 306
— forests of, iv. 272; x. 218, 329; xi. 450, 455
— geography of, iv. 275
— geology, xi. 454
— inns, x. 218
— people of, iv. 303
— suggested tour, x. 329
— vendetta, iv. 281; x. 216
Corte, x. 328
Cortina, inn at, vi. 200
— round, vi. 199
Corvara, xiii. 22
Corvatsch, Piz, attempted, xi. 370
Corvé, Mont, Col de, iv. 57
— — Glacier de, P. iii. 414
Coscione, Monte, x. 201
Costa, Sig., pictures by, xi. 45, 192; xv. 167, 509
Costa Rossa, Col di, x. 467
Costagrande, Colle di, x. 351
Coste Rouge, Col de la, ix. 94
Cotatoir, xii. 23
Cotocachi ascended, x. 370
Cotopaxi ascended, viii. 448; ix. 45, 513; x. 120
— microscopic ash from, x. 238, 438
Cotschen, Piz, *see* Oberalpstock
— — ascended, xii. 479
Couard, Col du, i. 297; viii. 75
Courgnier, Col, *see* Cornère, Val, Col de
Courmayeur, vii. 400
Courtes, les, accident on, xii. 343, 406
— ascended, viii. 105, 297
Couttet, F., obituary notice, xv. 331, 363
Couttet, M.A., obituary notice, xiii. 261
Coutts, H., pictures by, xv. 167
Cramm, Baroness von, pictures by, x. 184
Crampons, P. i. 494; iv. 251; xii. 474, 528
Crane, W., pictures by, xv. 97
Creppa di Fermin ascended, x. 61
Cresole, vii. 463
Cresta, i. 256
Cret, Col du, v. 312
Crête Sèche, Col de, P. ii. 267
Créton, Bec de, xv. 263
— — ascended, vii. 319
— Col de, xv. 263, 305
— Tour de, xv. 263, 306
Creux de Champs, viii. 400
Crevasse, Punta, ascended, xiv. 486
Crevasses, concealed, dangers from, ii. 275
Crillon, Mount, viii. 386
Criner Pass, ix. 63
Crispalt ascended, vi. 336
Crissolo, x. 467
— inn at, vii. 218; x. 487
Cristalljoch, vi. 344; vii. 15
Cristallina, Forcola di, accident on, xiv. 140
— Monte, x. 157
— — ascended, x. 296
Cristallo Glacier (Ortler), i. 401
— Monte, accident on, xiv. 136
— — ascended, xiii. 18
— — by N.N.E. arête, xiv. 505; xv. 78
— — in winter, x. 495
— — N.W. peak, x. 362
— — (Ortler), i. 46
— — — ascended, i. 382, 397
— Pass, accident on, xiv. 475
Cristillan, Col de, i. 67
Croce, Cresta della, ascended, xiii. 567
Croce d'Ovo, Bocca, x. 319
Crocetta, Colle della, accident on, xii. 109
Croft, A., pictures by, vi. 160, 384; vii. 168, 408; ix. 302, 513; x. 183; xi. 192, 409; xii. 168, 462

Digitized by Google

Croft, A., pictures by, xiii. 175, 338; xv. 97, 167, 393
Croisse Baulet ascended, xii. 140
Croix, Col de la, in 1840, xv. 44
— — (Corsica), x. 331
Crommelin, H. A., accident to, xiii. 54, 110
Crosse, R., accident to, v. 372
Crot del Ciaussine hut, x. 488; xi. 412
Crouzet, Col du, xii. 114
— Têtes du, ascended, xii. 114
Croz, M., accident to, ii. 148
— fund, ii. 422
Crozetta, Col della, v. 176
Crupillouze, Lacs de, xii. 115, 411
Cry, Haut de, accident on, i. 288
Csalho ascended, iii. 31
Cuculla, Capo alla, x. 326
Cueva d'Arras, xii. 23
Cugilio, Cima, ascended, xv. 368
Culatta, Cima della, ix. 90
— — height of, x. 46
Cumbre Pass, xiii. 563
Cunonega, Passo di, x. 70, 107
Curaglia, iii. 165
Currecanti Needle, xv. 481
Cuzco Pass, xiii. 561
Cwm Glas, P. i. 427
Cwm Graianog, P. i. 452
Cylindre, xii. 22
Cyllene, ix. 160

Dachstein, accident on, xiv. 138, 478
— group, ix. 495
— in winter, xiv. 248
— plateau, by S. wall, xiv. 506
Dadiasch, xiii. 512
Daino ascended, xi. 320
Daisy Glacier, xiv. 360
Dalcon, Val, v. 258
Dalimkote, fort of, iv. 89
Damma Pass, i. 435; ii. 94; xiii. 122, 176
Dammastock without guides, x. 419
Dante, the mountains of, x. 400
Darjiling, x. 2; xii. 36, 440
Darrei, xiv. 406
— ascended, xiii. 191
Darrey, *see* Neuva, Aiguille de la
Darwin, Mount (New Zealand), xi. 139
— — (Terra del Fuego), iv. 329
Dauphiné, ancient glacier passes, xiii. 538
— hypsometry, i. 157, 180, 301
Dauphiné in 1887, xiii. 460
— in winter, iv. 320
— new map of, ix. 296
— photographs of, xiv. 250
— topography, i. 67.
Dauva Blantz, Col de, ix. 107, 170
Davis, H. W. B., pictures by, xv. 509
Davos, i. 318
— invasion of, P. ii. 146
— winter health resort, v. 376
Davy, Sir H., tablet to, xiii. 265
Dawson Glacier, xv. 420
Deabang, xii. 26
Dearg, Sgurr, ascended, xv. 429
Déchy, M. de, photographs by, xii. 464; xv. 96
Deep Gill, xiii. 93, 178
— — Pillar ascended, xiv. 170
Dégioz, P. iii. 324
— inn at, xiv. 518
Delfino, Castel, *see* Castel Delfino
Delphi, Mt. (Eubœa), ascended, ix. 157
Demavend ascended, viii. 256
Demonte, inn at, ix. 498
Dent, C. T., photographs by, xv. 394
Dente, Capo al, x. 319
Deotiba, iii. 119
Depth, process of determining, vi. 282
Derali, vi. 391
Derlun ascended, x. 296
Dérochoir, Col du, landslip in 1751, xii. 9
Desor, E., death of, x. 492
Desplands, M., accident to, xiii. 398
Detonata, iii. 26
Devadhunga, *see* Gaurinsankar
Devas, J. F. C., accident to, xii. 408
Devdorak Glacier, xii. 335; xiv. 445
Devil's Bridge, disfigurement of, xv. 379
Deville Glacier, xv. 420
Dhaulágiri, xii. 26
Diablerets, accident on, ix. 373; xiii. 398
— ascended, viii. 270
— botany, v. 106
— from the Creux de Champs, viii. 400
Diablons ascended, i. 201
— Col des, i. 432
Diamond peak, viii. 393
Diavel, Passo del, ii. 404; v. 204
— Val del, v. 203
Diavolezza Pass, accident on, xiii. 395, 468, 470

Digitized by Google

Diavolezza Pass, hut on, xv. 447
— — in winter, xv. 153
Diet, P. i. 497; xii. 149
Diklos, xi. 473
Diláss ridge, iii. 124
Dimaro, inn at, v. 250
Diosaz, Gorges de, vii. 439
Dirt bands on the Arolla Glacier, P. ii. 281
Disco island, vi. 213
Disgrazia, Monte della, ascended, i. 3; iv. 48; v. 284
— — first ascent, v. 46, 48
— — from Chiareggio, viii. 20
— — from Val Malenco, vii. 328
— — without guides, xi. 121, 182, 245
Disgraziajoch, ii. 137
Dixon, Prof., photographs by, xv. 394
Djanga, *see* Janga
Djebel Tezah ascended, vi. 230
Dörferkees, accident on, xv. 273
Dogs in the mountains, xii. 18
Doigt, le, ascended, xiii. 210, 485
Doldenhorn ascended, i. 207; vi. 147; x. 385
— from the Faulen Glacier, xiii. 191
— from the Gasterenthal, xv. 310
— Klein ascended, ix. 438
Dolent, Col, ii. 131; ix. 236
— Mont, ascended, i. 374; ii. 101
Dolin, Mont, ascended, xiii. 448
Dollfuss, Pavillon, vii. 164, 338
Dollmayer, H., accident to, xiii. 399
Dolomites, botany, vii. 167
— hypsometry, xiv. 60, 252, 327, 408
— in winter, ix. 307, 382
— French, xiv. 211
— Swiss, v. 200
— Val Rendena, v. 249
Dom ascended, P. i. 194; iv. 209; ix. 110; xv. 369
— early attempts on, x. 337
— from the Domjoch, ix. 110; xv. 104
— from the Kien Glacier, xi. 117; xv. 222
— from Saas, vii. 105, 324; xii. 419; xv. 101
— from the S.W., xiii. 413
Dôme, Col de, xv. 296
— Glacier du, ii. 332; xv. 552
Domjoch, iv. 369; ix. 309
Don Jean Maurice, Croix de, ascended, xv. 295
Dongully, vi. 390
Dongussorun ascended, xiv. 97, 190; xv. 558
Donkia, x. 4
— ascended, xi. 404
— Pass, xii. 31
Donkin, Miss, pictures by, x. 184; xiii. 462; xv. 97
Donkin, Mount, ascended, xv. 420
Donkin, W. F., accident to, xiv. 99, 432; xv. 26
— letter from, xiv. 190
— memorial to, xiv. 239
— obituary notice, xiv. 128, 275
— photographs by, x. 184, 424, 496; xi. 178, 192, 409; xii. 64, 169, 464; xiii. 176, 338, 463
— — exhibition of, xiv. 309
Donkin and Fox, bivouac, xv. 34
Donne, B. J. M., pictures by, xi. 410; xiii. 339; xiv. 330; xv. 97
Doondah, vi. 388
Dopendikang attempted, xv. 117
Dormillouze, Pic de, ascended, viii. 343
Doron valley, botany, P. iii. 356
Dosdé, Corno di, ascended, ii. 407; xv. 557
— Glacier, peak at head of, ascended, ii. 406
— hut, xv. 557
— Passo di, ii. 408
Dossenhorn, circular rainbow, xii. 271
Dosson di Genova ascended, xiii. 567
Douglas, Lord F., accident to, ii. 148
Dovrejeld, iii. 84; iv. 29
Dow Crags ascended, xiv. 169
Dragon legends, iv. 172
Drakensberg range, xiv. 56, 397
Drakosh Pass, xiv. 428
Dránga Jökull, vii. 52
Drás peak, iii. 150
Dreieckhorn ascended, iv. 155; vi. 147
Drei-Schuster Spitze ascended, xii. 126
— — without guides, x. 498; xii. 128
Drei-Schusterjoch, vii. 23
Drei-Schwestern, accident on, xiii. 399
Drei-Zinnen ascended, vi. 345
Drei-Zinnenjoch, vii. 29
Dresdnerhütte, xii. 263
Drift, P. i. 419, 456, 515

Digitized by Google

Droites, les, ascended, viii. 105, 106, 298
Dru, Aiguille du, ascended, ix. 104, 185, 381; xi. 367
— — attempted, vii. 65
— — both peaks, xiii. 409; xiv. 511
— — early attempt on, vi. 194
— — W. peak, ix. 364; xii. 128; xiii. 459
Druos, Bassa de, ix. 338
Dubh, Sgurr, ascended, xiii. 436
Dündenhorn, x. 378
Dürrenhorn ascended, x. 340; xiii. 412
— by N.W. face, xiii. 556
— Klein, ascended, xiii. 172
Dürren See, vi. 345
Düssistock, accident on, xv. 275
— ascended, vi. 331; x. 307; xv. 276
— by W. face, xiii. 131
Dumsong fort, iv. 89
Dunagiri, xii. 28
— attempted, xi. 366; xii. 40
Dunassau, xii. 43
Duncan Glacier, xv. 421
Dunkur, iii. 65
Dupré, Mdlle., death of, x. 365
Durance passes, xiii. 37
Durand Col, P. ii. 361; v. 321; vii. 392; viii. 378; ix. 172
— Mont, Glacier de, P. i. 100
Durano, Monte, ascended, vii. 157
Durra Nooh, x. 14
Dychsu Glacier, vii. 101
— gorge, xii. 93
Dychtau, xiii. 229, 256, 354
— accident on, xiv. 99, 432; xv. 26
— ascended, xiv. 447; xv. 173
— height of, xiii. 364
Dzasset, Fenêtre de, xi. 359; xii. 85, 418, 518

E_{57} ascended, xii. 59
E_{58} ascended, xii. 59
E_{61} ascended, xii. 59
Eagle's nest, the, ii. 50
Eagles, vii. 92; xii. 24
Early mountaineering, xiv. 406
Earnslaw, Mount, attempted, xii. 341
East, A., pictures by, xv. 510
Ebnefluh ascended, iv. 156
Ebnefluhjoch, ii. 410; iii. 86
Eboulement, Aiguille de l', ascended, ii. 364; iii. 102
Ecandies, Pointe des, ascended, xiii. 487
Eccles, J., photographs by, xv. 394
Echauda, Col de l', P. iii. 196
Echelle, Pointe de l', ascended, xii. 482; xiv. 481
Ecrins, Brèche des, xiii. 50
— Col des, i. 74; vii. 138; viii. 195; xiii. 456
— Dôme des, ascended, x. 222; xi. 109
— Flambeau des, ascended, x. 94
— Pointe des, ascended, i. 373; ii. 225; x. 465; xiv. 163, 378
— — attempted, i. 66, 164
— — by N. face, v. 132
— — by S. face, x. 82, 219
— — position of, i. 159
— — without guides, ix. 227
Edenis, Mta, xiii. 373
Egger, P., death of, x. 421
— fund, x. 422
Egginerhorn ascended, xiii. 182
Eggischhorn in 1840, xv. 60
Egralets, les, iii. 69
Eiger ascended, i. 435; viii. 274
— attempt by E. ridge, xi. 28, 35
— by a new route, v. 277
— by the Mittellegi ridge, xii. 421; xiii. 553
— first ascent, viii. (app.) 81; xi. 172
— from the Bergli, xii. 123, 240
— from the Eigerjoch, viii. 109, 203
— Glacier, P. iii. 16
— great avalanche on, v. 342
— in winter, xv. 78
Eigerhörnli ascended, xiii. 416; xiv. 29
Eigerjoch, P. iii. 15; v. 276; viii. 205, 341
Eilferkofel, vii. 257
Eilferkofeljoch, vii. 25
Eisjoch, viii. 161; xiv. 466
Eivettes, Glacier d', ii. 83
Elbruz, iv. 166; ix. 138; xi. 473
— alleged ascent, xii. 327
— ascended, iv. 164; vii. 102, 113; xii. 95
— attempted, ii. 168
— from the N.E., xiv. 450
— Glaciers of, xii. 324
— height of, xiii. 364
— night on, xiv. 239
Electrical adventures, i. 142
— phenomena, iv. 216, 356

Digitized by Google

Electricity, vii. 203
— Pyrenees, i. 202
Elendhütte, xii. 263
Elliott, J. M., accident to, iv. 373
Elm, landslip at, x. 422
Elva, Pelvo d', ascended, xv. 330
Elwerrück ascended, xiv. 159
Embrun sacked, ix. 257
— inn at, xi. 241
Emile Pic, Col, x. 85, 268
Encula, Col de l', viii. 332
— Crête de l', ascended, viii. 332
— Rocher de l', ascended, ix. 362; xiv. 146, 376
Ende der Welt Ferner, ix. 370
Engadine botany, P. ii. 185; ii. 423
— in winter, x. 31
— manners and customs, vi. 432
Enge, the, i. 60
Engelberg, P. iii. 84; vi. 74
Engelbricht, Herr, accident to, xi. 345
Engelhorn ascended, xiii. 416; xiv. 26
England, Mr., photographs by, ii. 48
English churches in Switzerland, iii. 209
Engstlen, inn at, i. 96
Engstligengrat in winter, v. 67
Ennerdale Pillar, xiii. 95
Entdeckungsfels, xii. 75
Entraigues, Col d', x. 85
Entre deux Eaux, inn at, ix. 238
— Pierroux, Aiguille d', ascended, xi. 346
— — Col d', viii. 98
Epaisseur, Aiguille de l', viii. 59, 69
— — ascended, ix. 92; xii. 175
Epée, Glacier de l', ii. 27
Epicoun, Bec, nomenclature, xii. 523
— Gran, xv. 473
Erbetet, *see* Herbetet
Erosion theory, iv. 282; xiv. 221
Err, Piz d', pass near, ii. 360
Errata, i. p. viii; iv. 437; vi. 104, 208, 320, 445; vii. 56, 224; viii. 97, 227; ix. 239, 297, 384, 496; x. 184, 240, 288, 368, 424, 500; xi. 56, 192, 244, 308, 372, 436, 486; xii. 288, 360, 423, 533; xiii. 212, 292, 432, 496; xiv. 72, 176, 280, 344; xv. 576
Erratic blocks, xii. 157
Erratic phenomena, explanation of, iv. 213
Erstfelderjoch, vi. 80
Erstfeldthal, vi. 81, 338
Escavinade ascended, x. 353
Eschen, F.A., accident to, xiii. 130, 179
Eschia Pass, i. 381; v. 206
Escreins, inn at, ix. 497
Espigüete, Peña, vi. 66
Espinazito Pass, xiii. 562
Espingo, Lac d', P. iii. 103
Essefjord, v. 53
Esteng, inn at, ix. 500
Estérels, ix. 140
Estrella, Serra da, v. 122
Etablons, Col des, P. i. 113
Etages, les, P. iii. 186, 205
— Pointe des, ascended, ix. 94
Etala, Passage de l', viii. 344; x. 421
Etiache, Rognosa d', ascended, xi. 350; xii. 409
Etret, Col de l', ix. 362
— Grand, Col du, xiv. 467
— Tête de l', ascended, viii. 343; ix. 355
Europa, Picos de, vi. 67
Eutin, xiii. 181
Eva, Passo d', x. 59, 150
Evêque, l', ascended, viii. 15
— height of, v. 351
— Mitre de l', ascended, ix. 364
Everek, ix. 467
Everest, Mount, *see* Gaurinsankar
Evisa, x. 208, 314
Evolena, inn at, i. 96
Eychauda, Lac del', hut, x. 489
Eyglière, Pointe de l', ascended, x. 85
Eyjafjalla Jökull, vii. 52
Ezeri, xiv. 444

FADERJOCH, vii. 324; xi. 202
Fässler, H., accident to, xiv. 476
Fairweather, Mount, xiv. 166
Falban Spitze, Kleine, ascended, xv. 160
Falbanjoch, vii. 364
Faldum Pass, i. 434; ii. 91
Falkenæbbe ascended, xi. 143
Falkner, Cima, ascended, xi. 320
Falkniss, accident on, xiii. 399
Fallet, Mont, ascended, ii. 388

Digitized by Google

Falling stone, accident from, P. i. 239
Falut, xii. 454, 459
Fanella Pass, x. 487
Farnareita ascended, x. 353
Faulberg, P. i. 289
— hut, ii. 160; vii. 164
Faulhorn, vii. 294; xiv. 302
— botany, v. 108
— in 1839, xv. 40
— in winter, iii. 208; vi. 408; xiv. 201, 249
— scientific ascent, xii. 154
Faurio, Roche, ascended, vi. 289; vii. 89
— — Col de, vii. 104; x. 85, 268
Fedaja hut, x. 488
— Pass, vii. 167
— — inn, xiii. 24
Fedchenko, Prof., death of, vi. 306, 372
Federer Kogel, viii. 279
— — ascended, vii. 109, 360; x. 73
Fedozjoch, ii. 360
Fee, inn at, x. 487
— Pass, xi. 117, 414
Feistritz, iv. 348
Felikjoch, P. ii. 397; i. 87; viii. 378
— accident on, viii. 112, 163
— to San Giacomo d'Ayas, vii. 105
Félix Neff, Pic, ascended, x. 88
Fellaria Glacier, i. 350
Feltrume, Forcella di, vii. 253
Fend, ix. 33; xiv. 456
Fenestrelles, inn at, xi. 241
Fenêtre, Col de, P. ii. 302
— Glacier de, shrinking of, P. ii. 274
Fer, Croix de, accident on, xiii. 182
Ferber, Herr, accident to, xv. 275
Ferden Rothhorn ascended, ix. 493
Fermin, Creppa di, ascended, x. 361
Fernando Po, vi. 1
— — botany, vi. 3
— — peak ascended, vi. 17
Fernaujoch, x. 165, 280
Ferpècle Glacier, xv. 143
Ferrand, Grand, ascended, xiv. 218
— Punta, ascended, viii. 70
Ferrière, inn at, xiv. 326
Ferro, Passo di, i. 435
— — variation of, vii. 327
Festihorn, xiii. 523
Festorfjall, i. 247
Fétoules, Col des, viii. 342; xi. 347
— Tête des, ascended, viii. 342; ix. 354
— — in winter, xi. 411
Feuerstein ascended, xii. 124
Feuillette, Croix de, P. i. 74
Fex Glacier, P. ii. 138
Fiamis, Forcella di, vii. 14
Fiera, Val, v. 204
Fifre, le, ascended, x. 346; xi. 108
Fillar Kuppe, xi. 193
Fillarjoch, xi. 116, 194
Fimber Ferner, xi. 124
Findelen Glacier, accident on, i. 21
— — changes in, P. i. 156
Finsteraarhorn ascended, P. i. 283
— by the old route, xii. 178
— by the Rothhorn Sattel, viii. 109, 262
— by S. arête, xi. 368; xiii. 422
— circular rainbow, xv. 329
— discovery of, xiv. 322
— early ascent, P. i. 308
— first ascent, viii. (app.) 64
— from the Agassizjoch, iv. 155; vi. 297
— gîte on, i. 319
— in winter, xiii. 269; xiv. 249
— seen from Grindelwald, ix. 485
— without guides, x. 419; xii. 424; xiii. 388
Finsteraarjoch, i. 249
— in winter, iii. 208; iv. 317
Fio-cobon, Cima di, ascended, xiv. 268
Fiorina, Val, pass into, ii. 410
Firth, J. B., death of, xiv. 479
Fischer J. (1), accident to, vii. 110
Fischer, J. (2), accident to, xiv. 99, 432; xv. 26
— — obituary notice, xiv. 134
— fund, vii. 112, 217
Fiz, Rochers des, landslip, xii. 10
Fjœrlandsfjord, v. 53
Flambeau des Ecrins, *see* Ecrins
Flambeaux, les, ascended, viii. 344
Fleckistock from the Meienthal, xiv. 158
— in winter, xiv. 248
Fleskedal, xiii. 160
Fletschhorn ascended, P. i. 206
— from the Laquin Glacier, ix. 367
— nomenclature, viii. 107, 151; xv. 153
Fletschjoch, i. 433; vii. 126
Fleuri, Mont, *see* Perçée du Reposoir

Digitized by Google

Flimser Firn, P. i. 391
Floiten Glacier, x. 102
— Grund, vii. 235
Floitenspitze ascended, viii. 161
Floods in the Tyrol, xi. 124
Flora, destruction of, xii. 287, 358
Fluchthorn ascended, iv. 207
— — without guides, xi. 182
Flüh Glacier, vii. 442
— Pass, v. 144
Fluela Pass, inn at, iv. 238
Flumet, xii. 144
Flumser Pass, P. i. 375
Föhn, the, P. i. 259; P. iii. 85; x. 37
Folletto, Monte, ascended, xiii. 567
Fond, Col du, viii. 100; xiv. 494
— Pointe du, ascended, viii. 100
— — by S. ridge, xiv. 493
— Saillette, *see* Font Sancte
Font Sancte, Pointe de la, ascended, ix. 347; x. 129
Fontainebleau, fête at, ix. 154
Fontana Rimella, Bocca di, x. 328
Fonte Glacier, xiii. 120
— Roc del, ascended, xiv. 491
Fontenil, xii. 113
Foo Pass, P. i. 375
Fora, Piz, ascended, xv. 313
Forame, Forcella di, vii. 17
Forato, Monte, vii. 379
Forbes, J. D., obituary notice, iv. 221
Forca, la, Pass, vii. 13
Forcelle, le, x. 326
Forcellina Pass, iii. 19
Forches, Col, xii. 417
— Punta, ascended, xi. 358; xii. 84
Forchu, Mont, Bec de, ascended, i. 200; ii. 27
Forciolline, Passo delle, xiv. 143
— Vallon delle, P. iii. 155
Forclaz, xii. 144
— in winter, v. 68
Forcletta, Pas de, i. 203
— Pass, xi. 397
Forests, Swiss, statistics of, iv. 211
Formazzora, Passo di, x. 99
Fornaccia ascended, ii. 341, 354
— Passo della, ii. 354
Forno Glacier (Bormio), v. 180
— — (Maloya), advance of, xii. 302
— — hut, xiv. 519
— inn at, xi. 412
— Pass, i. 381
— Passo del (1), ii. 146
Forno, Passo del (2), x. 98; xiv. 154
— Passo di, *see* Cedeh, Passo di
— Val, i. 402; v. 176
Forster, W. E., obituary notice, xii. 520
Fort, Mont, ascended, iv. 205
— — Col du, xi. 116
Fos, Col de, ix. 101, 482
Fouille, Pas de la, xiv. 217
Foura, Punta, ascended, x. 355; xi. 24
Fourche, Grande, ascended, viii. 106, 344
— — nomenclature, vii. 439
Fourchons, Mont, ascended, xv. 542
Fourioun, Roccie, ascended, xiv. 143
Fours, Col des, (1) xiv. 488; (2) xv. 126
— Glacier des, xiii. 119
— Pointe des, *see* Perçée du Reposoir, Pointe
Fowler, Mrs., death of, vi. 56
Fox, H., accident to, xiv. 99, 432; xv. 26
— obituary notice, xiv. 132, 275
Fox, Mount, ascended, xv. 420
Foya, the, vi. 61
Fradusta, Cima di, ascended, iv. 397; v. 119
Fraele, Monte, *see* Scale, Monte della
— Val, v. 184
Franchet, Rocher de, ascended, xv. 296
Franz Joseph Fjord, v. 268
Fraxinetum, ix. 209, 254, 275
Freiberge, P. i. 385
Freigerbach, accident in, xiv. 477
Freimann, Herr, accident to, xi. 345
Fremont's peak ascended, ix. 245
French Alps, passes in, in the 18th century, x. 275
Frène, Pic du, ascended, ix. 176
Freney, le, inn at, xii. 175
Frères Chamois, Brêche des, xiv. 479
Fresnay, Col du, xii. 433
— Glacier, viii. 337, 409
Fréty, Mont, inn at, vii. 400
Frew, Mr., pictures by, xv. 167
Friuli, hypsometry, ix. 183
Frohn Alp, inn at, i. 96
Froppa, Forcella di, vii. 249
Fründenjoch, xiii. 191
Fruit, Aiguille du, ascended, xiii. 491
Fuegian Mountains, glaciers of, iv. 329

Digitized by Google

Fünffinger Spitze ascended, xv. 367
Fünffingerstöcke ascended, xii. 266
Fürkelejoch, ii. 354
Füsshorn ascended, v. 276; xiii. 268
Fulgurites, xiv. 118
Fulmini, Vedretta dei, xi. 317
Fum, Val di, to Pinzolo, ii. 213
Fumo, Monte, ascended, xiii. 484, 567
Fundus Thal, hut, xv. 557
Furggengrat, viii. 340; x. 423
Furggenhorn in winter, ix. 214
Furggenjoch, i. 136
Furrer, C., accident to, xiii. 398
Furtwang Pass, i. 383
Furva, Val, v. 182
Fusio, x. 155
Fusiyama in winter, vii. 214
Fuso di Forzo ascended, xii. 417
Fusstein ascended, x. 103
— without guides, x. 498
Fys, Chaine des, ii. 54

Gabas, xi. 400
Gabbett, W. E., accident to, xi. 98
Gabelhorn ascended, ii. 133; v. 314; xi. 418
— by N.E. arête, ix. 107, 170
— by N. face, xv. 306
— by S. face, x. 97
— by S.E. arête, viii. 399
— crossed, vii. 292
— from the W., vii. 320
— from the Wellenküppe, xv. 306
— from Zinal, ii. 221; vii. 153
— Ober and Unter, Col between, viii. 339
— Unter, from the Trift hut, xv. 371
— — from the Trift valley, xiii. 123, 176
— — thunderstorm on, xv. 416
Gabeljoch, Ober, xiv. 152
Gabet, Mons. and Madame, accident to, xiv. 475
Gacko, xiv. 418
Gaderthal, xiii. 21
Gässijoch, x. 96; xi. 118
Gai, Pointe de, *see* Gay, Punta di
Gailitzthal, vi. 372
Gailletta, Col de, P. iii. 397; ii. 390; ix. 101, 483
Gaisberg, accident on, xi. 99
Gaisl ascended, vi. 402
Galambre, Col de, vi. 292; viii. 70
Galdhöpigge ascended, iv. 33
Galenhorn ascended, xiii. 172
Galenjoch, x. 333, 343; xiii. 165, 172, 556
Galenstock, position of, ii. 93
Galèse, Col de, iii. 109; ix. 480
— — in 1843, x. 44; xv. 130
Galibier, Col du, road over, viii. 79
— Grand, Roche du, crossed, xi. 110
Galisia, Punta di, *see* Bousson, Pointe du
Galmihörner ascended, xii. 479
Gamchi Glacier, ii. 156, 224, 270
Gamserjoch, i. 140; vii. 126, 215
Gandolière, Col de la, ix. 362
— Tête de la, ascended, x. 91
Ganges, mythic accounts of, vi. 395
— sources of, vi. 387
Gangootre, vi. 385; xii. 28
Ganterist, accident on, xiii. 399
Gasigjoch, xi. 181
Gaspard, Pic, ascended, x. 84
Gastaldi, Cresta, ascended, xiv. 147, 284
— Punta, ascended, xii. 110
Gasterenthal, x. 382
Gaudin, M., accident to, xiv. 474
Gaurinsankar, iv. 88; x. 4; xi. 403; xii. 103, 442, 521
— nomenclature, xii. 452
Gavarnie, iv. 337; vii. 48
— inn at, i. 133; xii. 21
— Port de, iv. 114; xii. 24
Gavet, Combe de, P. iii. 184, 215
Gavia Pass, v. 181
Gay, Becca di, nomenclature, xiv. 485
— Punta di, ascended, vii. 316; x. 355; xi. 23
Gazza, Monte, ascended, xi. 323
Géant, Aiguille du, vi. 172
— — ascended, xi. 72, 115, 302; xii. 431
— — attempt on, ix. 48
— — height of peaks, xi. 181
— Col du, P. i. 39
— — accident on, in 1860, i. 22
— — accident on, in 1885, xii. 407
— — accident on, in 1890, xv. 273
— — ascended by the Queen of Italy, xiv. 163, 243
— — first passage of, ix. 22, 86; xiv. 407
— — hut on, vii. 168; viii. 52; ix. 236
— — in winter, x. 493; xi. 256; xiii. 269
— — Italian side, P. i. 56

Digitized by Google

Géant, Col du, three days on, xiii. 8
— Glacier du, avalanche, P. i. 49
— — bursting of sub-glacial lake, P. i. 48
— — icefall, P. i. 48
Gebi, iv. 162; vii. 100; xiii. 374; xiv. 18
Gébroulaz, Col de, ix. 102, 176
Geirangerfjord, iv. 27
Geisshorn ascended, x. 98
— topography, xiii. 268
Gelas, Cima dei, ascended, ix. 341
— — topography, ix. 410
— di Belvedere, Passo di, *see* Pagari, Passo di
Gélé, Mont, ascended, P. ii. 269; iv. 205
Gelle, v. 58
Gelmerhorn ascended, xiv. 257
Gelmerhörner Pass, xv. 547
Gemerk, vii. 11
Gemmi in winter, v. 65; xii. 172
— traveller shot at on, xiii. 184
Gemsen Freiheit rock, P. ii. 167
Gemsfayrenstock ascended, x. 308
Génépy, Rochers de, ascended, xv. 296
Generoso, Monte, viii. 52
Geneva, Alpine Congress, ix. 333
Génevois, Pointe des, ascended, xv. 545
Genèvre, Mont, xi. 288; xiii. 29
Genil, source of the, iii. 13
— valley of, xiii. 85
Genova, Val di, ii. 11; x. 112, 179
— — legends of, vii. 440
Gény, J. R., accident to, xiii. 396
Geology, xiii. 314; xiv. 39, 105, 221
— Arolla, viii. 16
— Corsica, xi. 454
— Mont Blanc, xii. 6
— Mount Baker, viii. 395
— Snowdon, P. i. 426
— suggestions, P. i. 513
— survey of the Rhone Glacier, ix. 431
Gepatsch Glacier, xv. 361
— — hut on, xiii. 265
Gerlsdorfer Spitze, accident on, xiv. 140
Gers, lac de, xii. 16
Geschenen Limmi, *see* Göschenen Limmi
Gesner, C., xii. 428
Gestola ascended, xiii. 116, 220
— height of, xiii. 364
Gestola, nomenclature, xiii. 418
Geysirs, the, P. ii. 10
Ghertui Glacier, xv. 33
Gheu, Monte, ascended, x. 107
Ghisoni, x. 203
Ghusa peak, iii. 131
Ghya, iii. 142
Giargiole, Capo alle, x. 324
Giau Longo, vii. 13
Gibson, Mrs., pictures by, xiv. 330, 344
Giers, Col de, xiv. 220
Giessen Glacier, i. 184
Giettaz, la, xii. 140
Giglistock ascended, xii. 266
Gilbert, J., pictures by, xii. 533
Gillian, Sgurr-nan, xv. 156
— — ascended, xiii. 434; xv. 70, 424
Ginzling, vii. 234, 292
Giordani, Punta, ascended, xii. 67
Giordano, Punta, ascended, ix. 4
Giornico, battle of, xiii. 486
Giouberny, Mont, P. iii. 210
— — ascended, vi. 292; vii. 142
Gioux, *see* Degioz
Giovo, Foce al, xi. 328
Gippiera, Col de la, ix. 352
Giralba Bassa, Forcella di, vii. 33
— Forcella di, vii. 24
— Monte, xv. 369, 441
— — ascended, xv. 315
Girard, Col de, ii. 84; ix. 477; x. 277
Girardin, Col de, x. 130
Giraud Lezin, Brêche, x. 90, 267; xiv. 375
Girose, Col de la, x. 265; xii. 113
Giuf, Piz, ascended, x. 296
Gjaidsteinjoch, Hoher, ii. 352
Gjegnalund ascended, xiv. 385
— Glaciers, xiv. 380
Gjeithorn ascended, xiv. 162
Gjendebod, hut at, xiii. 153
Gjuratind from Eikidalsvand, xv. 152
Glacé, Lac, P. iii. 106
Glacial period, P. i. 400
Glacier action, vii. 401
— Aiguille du, *see* Suessa, Becca di
— Col du, ii. 415
— fleas, vii. 85
— motion, Gorner and Findelen Glacier, P. i. 155
— music, P. i. 174
— passes, ancient, xv. 75

Digitized by Google

Glacier, polished rock, xiii. 211
— vin du, P. i. 343
Glaciers, advance of, xii. 523
— ancient, P. i. 400
— — Croix de Nivolet, Col de la, P. 3, 287
— — and vegetation, v. 83
— — Lac Cornu, ii. 62
— — Lucerne, iv. 211; vii. 267
— — Rocky Mountains, ix. 246
— and meteorology, ix. 297, 435
— Arctic, xii. 162, 226
— Caucasus, xii. 324; xiii. 367
— depressions in, P. ii. 362
— dirt bands, P. i. 109; P. ii. 281; P. iii. 455
— early accounts of, xiv. 319
— erosion, iv. 282; xiv. 221
— exorcising the, ix. 495
— extent of Swiss, iv. 180
— former extension, xii. 157
— Greenland, v. 6.
— Himalayas, xi. 213; xii. 33, 304, 312, 439, 450
— legal rights to, ix. 49; xii. 469
— measurement of, ix. 332, 431
— motion, i. 334; iv 411; v. 40
— observations, xv. 348
— regelation, ii. 307
— retreat of, vi. 30, 195, 329; vii. 267; viii. 275; xi. 186
— suggestions for observing, P. i. 509
— temperature, xii. 233
— theories, P. i. 400; ix. 327; x. 497; xii. 219, 300; xiv. 221
— traces of, in North America, x. 109
— variation of, xii. 181, 481
— veined structure, P. i. 278; i. 46
Glärnisch ascended, i. 120; x. 308
Glandon, Col du, viii. 61
Glarus, derivation of, P. i. 371
Glayza, Grand, ascended, xii. 112
Gleckstein hut, vii. 164
Glen Brittle, xiii. 437
Gleno, Monte, viii. 91
— — ascended, vii. 107
— — Passo di, vii. 107
Gletscher Garten at Lucerne, vii. 267
Gletscherhorn ascended, iv. 54
'Gletscher Mons,' xii. 469
Gletschhorn ascended, xv. 311, 375
Gletschjoch, xv. 548
Gliems, Piz, ascended, x. 296
— Porta da, ii. 134; iii. 164; x. 297
Glière, Pointe de la, ascended, xiii. 405
Glière de Pralognan, P. iii. 371
Glitra, falls of the, v. 156
Glittertind ascended, v. 156
Glockner, Gross, accident on, xiii. 54, 110
— — ascended, P. ii. 429; vi. 151, 351; xiii. 455
— — green shadows on snow, i. 95
— — hut on, vi. 150; ix. 238
— — in winter, vii. 168, 211; x. 495
— — topography of, P. ii. 425
— — without guides, x. 498
Glockner-haus, xii. 263
— accident at, xiii. 399
— proposed railway, xv. 79
Glüschaint, Piz, xii. 179
Glyder Fawr in winter, vi. 195
Gnifetti, G., death of, iv. 61
Gnifetti hut, xii. 68; xv. 223
— Punta, *see* Signal Küppe
Gobi, desert of, cold in, v. 245
Goda-foss, P. ii. 105
Goehrs, Herr, accident to, xv. 274
Göschenen Limmi, i. 435; ii. 157
— Thal, ii. 92
Goille à Vassu, P. i. 82
Goiran, Col de, x. 146
Goj, Bochetta del, xi. 361; xii. 88
Goldau, landslip at, xii. 428
Goldzechscharte, accident on, xiii. 114
Goléon, Aiguille du, ascended, viii. 336
— — without guides, xii. 424
— Col du, viii. 178; x. 84
— — in winter, iv. 321
Golzern See, vi. 80
Gombo, vii. 375
Goodall, F., pictures by, xv. 510
Gordola, x. 146
Gordon Bennett, Mount, xiv. 324
Goribolo Pass, iv. 162
Gorner Glacier, advance of, P. i. 401
— — changes in, P. i. 156
Gorphwysfa, P. i. 425
Gorvatsch Tau, xiii. 503
Gos, A., pictures by, xv. 167
Gosain Than, xii. 29
Gottesackerwände, accident on, xv. 225
Gouille, Mont de la, ascended, xv. 543
Gouter, Aiguille du, ascended, P. i. 62, 68

Digitized by Google

Gouter, Aiguille du, descent by night, P. i. 71
— Dôme du, ii. 334
— — ascended, P. i. 68
— — Col du, i. 375
— — from the Aiguille de Bionnassay, xiv. 150
— — from the Glacier de Miage, ii. 110
Grabenhorn ascended, xiv. 152
Graducewsky, W., accident to, xiv. 476
Graffeneire, *see* Combin, Grand
Graham, P., pictures by, xv. 167, 509
Graian Alps, model of, v. 375
— — table of heights, P. iii. 313
Graigner, ii. 54
Grancrou, Col de, v. 174; vi. 106; xi. 23; xii. 416, 514
Grand Glacier, xv. 420
Grande, Forcella, vi. 201; vii. 242
Granero, Monte, x. 456, 481
— — ascended, xii. 111
Grangettes, Col des, viii. 343
Granta Parey, record left on, xiii. 129
Graou, Tête du, ascended, viii. 343
Grasse, ix. 148
Grassen Pass, vi. 77; xv. 74
Grassmere, Alpine meeting, xi. 124
Grauenhaupt, P. i. 164
Grave, la, P. iii. 215
— inn, x. 488; xiii. 461
— Pic de la, ascended, vii. 145, 151
— — lower summit, x. 83
Graven, A., accident to, xv. 274
Greadaidh, Sgurr, ascended, xiii. 444; xv. 428
Great End in winter, v. 36
Gredetschjoch, vi. 93
— without guides, x. 419
Gredos, Sierra de, vi. 62
Greece, hypsometry of, viii. 434
Greenland, v. 1, 266; vi. 161, 209
— geology, vi. 218
— glaciers, v. 6; xii. 162, 226
— height of mountains, vi. 217
— inhabitants of, v. 18
— sport in, v. 10
Grenier, Bec du, ascended, i. 372
— Gros, ascended, xii. 112; xiv. 145
— — Pas du, ix. 96
Grenoble, fête at, viii. 445
Grenzgipfel, xv. 495
Grenz Glacier, viii. 338
Grenzsattel, xiii. 126
Grépon, Aiguille de, position of, x. 420
Grésivaudan, i. 296
Gressonay, inn at, x. 161
Griesgletscherjoch, ix. 58
Grieskogel ascended, xiv. 464
Gries Pass, ix. 496; xiv. 155, 406
Grigna, vii. 464
— ascended, vii. 328
Grimsel, Hospice, burnt down, P. i. 261
— in 1544, xii. 182
— lake, P. i. 408
— to Viesch, i. 137
Grindelwald and Valais, intercourse between, xv. 74
— botany, v. 107
— English church, ii. 221; xii. 489; xiii. 129
— Glaciers, viii. 276
— — retreat of, vi. 30
— hurricane at, xi. 178
— in the olden days, xv. 223
— in winter, iii. 207; iv. 309
— inns, viii. 400
— marble quarries, vi. 32
Grisanche, Val, P. iii. 384
Grise, Aiguille, hut on, vii. 168, 337, 401; ix. 236; xv. 552, 557
Grisighorn, circular rainbow on, xii. 271
Grivola ascended, P. iii. 314, 318; v. 172; vii. 2; xi. 21; xii. 515
— attempts on, P. iii. 313
— by N. arête, viii. 101; ix. 72
— crossed, viii. 82, 102
— from the Col de Mesoncles, x. 355
— from Val Savaranche, viii. 82, 102
— in spring, vii. 268
— night bivouac on, P. iii. 292
Grivoletta ascended, xii. 418, 515
Grohmannspitze, by S. side, xv. 365
Gros Jean, Col de, xi. 108
Groscovallo, avalanche at, xii. 261
— inn at, xi. 412
Grossgant ascended, vi. 337
Grosshorn ascended, xv. 311, 443
Grosso, Monte, x. 319
Grosventre Mountains, ix. 248
Grotte, E. de, accident to, i. 21
Grünhorn, Gross, ascended, ii. 268; xiii. 121
— — from the Concordia hut, xv. 328

Digitized by Google

Grünhorn hut, vii. 338
— Klein, ascended, xii. 421
— — without guides, xii. 424; xiii. 382
Grünhornli in winter, xiii. 466
Gruetta, Mont, ascended, viii. 105
Grunsteinscharte, xiii. 566
Grytereidsnibben, xiii. 128
Gspaltenhorn ascended, iv. 382; x. 379
— attempted, iv. 54, 157
Gsteig, viii. 271
Gstrein, P. P., accident to, xv. 273
Guadalupe, Sierra de, vi. 62
Guagnerola, Capo di, x. 326
— Col di, x. 327
Guagno, x. 206
Guagua Pichincha ascended, x. 193
Guallabamba, x. 241
Guaranda, x. 50
Guardia del Porco, *see* Fourioun, Roccie
Guayaquil, x. 49, 441
Guazzo, Sig., pictures by, viii. 115
Gudvangen, iii. 79
Güferhorn ascended, x. 296; xi. 365
Güssfeldt Sattel, xiii. 302, 417; xv. 498
Güzza, Cresta, xiii. 302
— — ascended, i. 381; ii. 359; iv. 217
— — attempted, i. 351
Guggi Glacier, P. iii. 16
— hut, vii. 338
Guicha-la, Pass, xii. 47, 440
Guichard, Cabane, P. i. 61
Guide, an early, xi. 180
— misconduct of a, x. 108
— personation of a, i. 48; viii. 401
Guides, ix. 70
— and amateurs, v. 87; xii. 289
— bounty fund for, xiii. 481
— Chamonix, P. i. 525; v. 190, 297; vi. 306, 372, 421; vii. 42; ix. 308; xi. 459
— Cogne, xii. 84
— fund, ix. 445
— insurance for, ix. 49; x. 278; xii. 183, 481
— lectures to, xiii. 271
— Norway, v. 170; xi. 145; xii. 268, 423; xiii. 148
— payment of, xv. 500
— Pontresina, i. 141, 205, 352; ii. 407; vi. 430
— provision for old age, i. 44
Guides, Pyrenees, xii. 21
— qualities of, v. 88
— regulations as to, xiii. 170, 422, 471
— San Martino Lantosca, xiii. 177
— stories in Alpine periodicals, ix. 436
— Tyrol, vi. 369
— Zermatt, viii. 382; xiii. 106, 167, 177, 422
Guillestre, P. iii. 134
— inn at, ix. 497
Guin, Becca di, ascended, vii. 211
— — in spring, vii. 268
— — nomenclature, xv. 263
Guitera, baths of, x. 200
Guivra, la, gorge of, ii. 52
Gulba ascended, xiii. 359, 507
Guluku, *see* Koshtantau
Gumara Choch, xii. 316
— — ascended, xv. 558
Gurdzi-vsek peak, xv. 319
Gurgl, xiv. 456
Gurhwal group, xii. 28, 40
Gurschavi, xii. 498
Gusher Brum, xiv. 51
Guttinger, M., accident to, xii. 108, 167
Guyot Glacier, xiii. 91; xiv. 354
Gvalda Glacier, xiii. 357, 509; xiv. 89
Gwächtenhorn ascended, xv. 73
— by N.W. arête, xiv. 504
Gwächtenjoch, xiv. 158

Hadlich, Dr., death of, xiv. 478
Hadow, Mr., accident to, ii. 148
Halbelfjoch, xiii. 126
Haller, A., accident to, x. 46, 109
Halys, the, ix. 464
Hamel, Dr., accident to, i. 141, 332
Hammam Meskoutin, xiv. 83
Hammerfest, iii. 76
Hangendhorn ascended, i. 379
Hannibal, Pass of, xi. 267; xiii. 28
Hannibal's vinegar, xi. 481
Hanö, iv. 430
Hanötinderne, iv. 430
Hardangerfjord, iii. 78; iv. 34
Hardman, Sir W., obituary notice, xv. 281
Hardy, J. F., obituary notice, xiii. 542, 572
Hasli Thal, extinct glacier, P. i. 412

Digitized by Google

Hasselfjord, iv. 434
Haast, J. von, medal awarded to, xii. 63
Hatseger Thal, iii. 26
Hatters, hint to, xiii. 39
Hausstock ascended, x. 308
Haute Pisse, Col de la, x. 93
Hautemma, *see* Otemma
Hawker, W. H., obituary notice, vii. 56
Hay, M., pictures by, xv. 509
Hayman, Mr., accident to, viii. 112, 163
Héas, inn at, xii. 21
Heber, A., accident to, xiii. 399
Hegraffjord, iv. 434
Heights, determination of, by barometer, ii. 33, 63, 123; iv. 94; v. 218
— method of measuring, P. i. 498; P. iii. 345, 463, 484; iv. 269; vi. 414; vii. 204
Heiligen drei Brunnen, i. 409
Heinitz, Herr, accident to, ix. 114
Hekla ascended, P. ii. 13; vii. 52
Helle Platte, vii. 401
Helsenhorn ascended, xv. 534
Henle, Herr, accident to, xii. 109
Hennesiegel Köpfe ascended, xv. 361
Henvières, Pointe des, ascended, x. 348
Hepp, E., accident to, xiii. 398
Herbetet, Col de l', xii. 86
— Pointe de l', ascended, x. 354; xi. 16, 20; xiv. 149, 282
— — nomenclature, viii. 102; xi. 480
Herdu Breid, P. ii. 97
Hérémence, Glacier d', P. i. 108
— Val d', v. 326
Hérens, Col d', i. 33
— — in 1843, x. 44; xv. 142
— — without guides, x. 419
— Dent d', ascended, i. 138, 209; viii. 383; ix. 49; xiii. 173
— — by S.E. face, xiv. 499
— — from Breuil, vi. 294
— — from the Stockje, x. 358
— — from the Tiefenmattenjoch, ix. 382; x. 358
Herkomer, H., pictures by, xii. 463; xv. 97
Herôubreiôr, vii. 52
Hertz, M., death of, xiv. 477
Herzegovina, hints to travellers, xiv. 429
Herzmann, J., accident to, xii. 408
Heuberg ascended, ii. 157
High-level route, variations on, v. 309
Highest mountain in the world, xii. 27, 49, 52, 103, 450
Highlands in winter, xi. 182, 480; xii. 502
— Western, xiii. 473
Himalayas, climbing in, xi. 203
— geology of, iv. 87
— glaciers in, xi. 213; xii. 33, 304, 312, 439, 450
— height of mountains, xi. 403
— hints for travellers, vi. 385
— passes over 'Snowy range,' iv. 85
— physical features, xv. 119
— routes, vii. 259
— sport, iii. 120; iv. 87; xi. 203; xv. 119
— survey, xii. 53, 438
— table of heights, xii. 446
— topography, iv. 76; xii. 26
— vegetation, xv. 119
— zoology, iv. 87
Himis monastery, iii. 143
Hinchliff, T. W., memorial, xi. 407, 486
— obituary notice, xi. 39, 56
Hindö, island of, iv. 428
Hindoo Koosh, x. 15
Hindostan to Thibet, iii. 52
Hintereis Glacier, ii. 142
Hintergraslspitze ascended, xv. 159
Hinterrhein, iv. 237
Hints to mountaineers, P. i. 490; ii. 1; iii. 95
— — in the Caucasus, xiii. 257, 376; xiv. 24
Hints to travellers in Bosnia and Herzegovina, xiv. 429
— — in Iceland, P. ii. 117
Hirondelles, Col des, vi. 292, 351; x. 111
Historical mountaineering, xii. 178
Hlidar-fjall, P. ii. 100
Hochalmspitze ascended, xii. 125
Hochfeiler ascended, vii. 157
— height of, vii. 289
— in winter, x. 495
— without guides, x. 498
Hoch Gall ascended, vii. 329
Hochjoch, vii. 328; xii. 125
— Hospiz, xii. 264
Hochnarr, accident on, xiv. 473
— observatory, xiii. 39
Hochstetter Dome ascended, xi. 301, 366; xii. 167, 339
— Glacier, xi. 57; xii. 166

Digitized by Google

Hochthäligrat, xv. 207
Hoch Wild Spitze ascended, viii. 161 ; ix. 494 ; xiv. 466
— — — from the Langthaler Glacier, vii. 329
Höhlenstock ascended, xiii. 126, 134
Hörnli in 1840, xv. 58
Hof (Iceland), P. ii. 75
Hoffmannshütte, vi. 150
Hohbalm, viii. 284
Hohberghorn ascended, x. 339 ; xiii. 172, 521
Hohberg Pass, x. 336 ; xiii. 412, 556
Hohe Kasten, accident on, xiv. 248
Hohlentrift Pass, xi. 117
Hohlicht (Lys Glacier) hut, vii. 337
— (Schallenberg) hut, vii. 337
Hohsand Glacier, xi. 398
Hohsandhorn ascended, viii. 341 ; ix. 64
Hohwänghorn, Gross, ascended, xiv. 500
Holbein's sketches, xii. 346
Holland, F. W., death of, x. 365
Holmes, H., photographs by, xv. 96
Homme, Bec de l', without guides, xii. 423
— Col de l', vii 316 ; ix. 93
Hood, Mount, ascended, iii. 214 ; viii. 234
— — height of, viii. 391
Hooker Glacier, xi. 4 ; xv. 445
Hooper, W., photographs by, xii. 464
Horningdalsrokken ascended, iv. 28
Hornspitzen ascended, vii. 211
Hornthalerjoch, xi. 124
Horungtinder, iv. 32
Houerts, Col des, x. 349
— Vallon des, Pic du, *see* Signalé, Pic
Hoxa Pass, iv. 203
Hrafna gja, P. ii. 8
Hudson, C., accident to, ii. 148
Hühnerstock, xv. 323
— ascended, xiii. 121, 309
— S.W. peak, xiv. 504
Hühnerthalihorn ascended, xiv. 158
Hüllehorn ascended, xv. 535, 550
Hüpner, M., accident to, ii. 223
Huesca, iv. 115
Hufi Glacier, retreat of, vii. 267
Hufistock, *see* Düssistock
Hundstall Sattel, vii. 23
Hungrung Pass, iii. 62
Hunter, C., pictures by, xv. 167
Hutchinson, C. B., accident to, i. 440
Hutchinson, W. G., death of, xiii. 115
Hut question, the, x. 237
Huts, ix. 165, 180
— and chains, ix. 490
— Bedole, vii. 462 ; x. 112
— Bietschhorn, x. 487
— Blanc, Mont, xv. 328
— — — range, vii. 168 ; ix. 235
— Brenta, Bocca di, x. 489
— Bruna, la, xii. 417
— Chanrion, xv. 324
— Constantia, xiv. 519
— Corbassière Glacier, x. 489
— Dauphiné, ix. 224, 232 ; x. 488 ; xi. 241, 412 ; xiii. 276
— Diavolezza Pass, xv. 447
— Dosdé, xv. 557
— Eastern Alps, x. 489 ; xiii. 265, 276
— Faulberg, ii. 160 ; vii. 164
— Fedaja, x. 488
— Forno Glacier, xiv. 519
— Fundus Thal, xv. 557
— German Alpine Club, xii. 263
— Gjendebod, xiii. 153
— Gnifetti, xii. 68 ; xv. 223
— Grise, Aiguille, vii. 168, 337, 401 ; ix. 236 ; xv. 552, 557
— Gross Glockner, vi. 150 ; ix. 238
— Hohlicht, vii. 337
— Italian Alps, xi. 369 ; xiii. 276
— Jungfrau, xii. 171
— Langethal, xiii. 128
— Leipsiger, x. 112, 179
— Marmolata, vii. 338 ; x. 488
— Matterhorn, ii. 268 ; iv. 158 ; vii. 337
— Morte, la, xii. 189
— Mountet, v. 275 ; vii. 337 ; xiv. 519
— Norway, xiii. 147
— Oberland, ii. 224 ; vii. 164, 338 ; xi. 242 ; xv. 447
— Olperer, x. 489
— Pfaffennieder, xv. 558
— Pfitscherthal, x. 489
— Piantonetto, xiv. 519
— Pierre à Berenger, vii. 337
— regulations as to, xiii. 183
— Sacripante, x. 488
— Sanmoar, xiv. 461
— Signal Kuppe, xv. 558
— Stockje, viii. 376

Digitized by Google

Huts, Tarentaise, xii. 271
— Terglou, xv. 375
— Tödi, i. 320
Hveitestrand, xiv. 506
Hver-Fjall, P. ii. 103
Hypsometry, P. i. 498, 517; P. iii. 345, 463, 484, 506; i. 315, 441; ii. 32, 33, 46, 63, 123, 397; iii. 209; iv. 94, 269; v. 218; vi. 414; vii. 204
— Caucasus, xiii. 364
— Dauphiné, i. 157, 180, 301
— Eastern Alps, xiv. 60, 252, 326, 408
— Friuli, ix. 183
— from the tunnel to the Levanna, xi. 333
— Graian Alps, P. iii. 313
— Greece, viii. 434
— Himalayas, xii. 446
— Mexico, xv. 271
— Mont Blanc, xv. 553
— Mont Pourri, i. 119
— Monte Viso, P. iii. 174
— New Guinea, xv. 72
— N. America, viii. 241; xv. 371
— Ortler Group, i. 416
— Spain, vi. 73

IBARRA, x. 373
Ibex, vi. 64
Ibi Gamin, xiii. 3
— — attempted, xii. 31
Ice-axes, P. i. 494; i. 253, 321; ii. 31, 217; iv. 126
Ice caves, iv. 174; xii. 45
— erosive power of, xii. 300
— grotto, i. 144
— slopes, dangers on, ii. 277
— writing, xii. 492
Icebergs, disruption of, vi. 213
Iceland, botany, P. ii. 125
Icy bay, xiii. 89
Iglesia, la, Pass, xiii. 560
Illecellewaet Glacier, xv. 420
Iller, accident on, xi. 345
Illgraben, chasm of, i. 94
Illimani ascended, viii. 397; ix. 489; xi. 408
Illiniza, viii. 448
— ascended, x. 376
— attempted, x. 117, 426
Iltaqui, x. 371
Imfanger, E., accident to, ii. 223
Imponjwana Pass, xiv. 399
Imseng, F., accident to, x. 364
Inäbnit, P., accident to, x. 46, 109
— fund, x. 366, 424, 498
Inchin, valley of the, iv. 202
Incudine, Monte, ascended, x. 202
Indus, the, iii. 142
Infernet, Col de l', vii. 136; viii. 70
Infernets, les, gorge of, P. iii. 216, 231
Infranchissable, dit, Col, v. 277
Inglis, J. J., pictures by, xv. 167, 509
Ingur, sources of the, xiii. 518
— valley of the, iv. 248
Innerkofler, M., accident to, xiv. 136
Innicher Riedl, vii. 21
Innkeepers, ix. 485
Inns, Adamello district, v. 188, 250; vi. 430; vii. 462; viii. 168
— An der Lenk, vi. 54
— Anavyrti, viii. 327
— Apennines, viii. 356; xiv. 326
— Argentière Glacier, ix. 496; x. 112
— Arolla, v. 316; xi. 242
— Bergün, iv. 238
— Bernina Pass, iv. 238
— Bionaz, vii. 50
— Cencenighe, viii. 115
— Champery, i. 96
— Chiesa, viii. 115
— Comballaz, i. 96
— Corsica, x. 218
— Cottian Alps, i. 115; vii. 218; ix. 409, 497; x. 487; xi. 241, 370, 412
— Dauphiné, i. 68; ix 230; x. 488; xi. 241, 411; xii. 175; xiii. 184, 419, 460
— Dolomites, vi. 200; vii. 50, 247; viii. 115, 453; x. 73; xiii. 24
— Engstlen, i. 96
— Evolena, i. 96
— Fluela Pass, iv. 238
— Frohn Alp, i. 96
— Graian Alps, P. iii. 281, 291; x. 487; xi. 369, 412; xiv. 325, 518; xv. 447
— Lepontine Alps, x. 487; xi. 304, 481; xv. 152
— Maritime Alps, ix. 497
— Mauvoisin, v. 311
— Norway, xiii. 128
— Oberland, iv. 239; vii. 165, 440; viii. 400, 453; ix. 487; xi. 241

Digitized by Google

Inns, Pierre Pointue, i. 431
— Poschiavo, i. 96
— Pyrenees, i. 133; xii. 21
— Rabbi, vi. 303
— Rosa, Monte, district, P. i. 222; P. ii. 399; iv. 238; vii. 50; x. 161, 487; xiv. 519; xv. 79
— St. Gertrud, v. 284
— St. Gervais, i. 96
— Sonnenberg, i. 96
— Stachelberg, i. 96
— Tarentaise Alps, vii. 440; ix. 238; x. 488; xi. 412; xii. 270
— Zinal, xi. 242
— Zmeiden, i. 94
Insurance for guides, ix. 49; x. 278; xii. 183, 481; xiii. 148
Inundations in 1852, P. i. 269
— in 1868, iv. 177
Invergnan, Becca dell', ascended, i. 374; ii. 29; xii. 414
Ipari, xiii. 360
Ippolita Pass, *see* Piodejoch
Isaia, Col, xiv. 143
Ischl, climate of, v. 272
Iselin, Mr., accident to, ii. 420
Isenfluh, xv. 555
Isenthal, P. iii. 76
— treatment of travellers, ii. 366, 421
Iséo, Lago d', viii. 85
Iseran, Col d', P. iii. 352; ii. 81
— Mont, vi. 101; xiii. 119
— — demolished, P. iii. 404
Isoard inn, x 487
Isola, inn at, ix. 499
Italian lakes, new route across, xiii. 38
Italy, Queen of, xiv. 163, 511
Ivrogne, P. iii. 384
Iztaccihuatl ascended, xv. 268
— height of, xv. 271

Jackson, E. P., obituary notice, x. 231
Jägerhorn ascended, iv. 54, 65
Jägerjoch, xi. 194; xv. 369
Jägihorn ascended, xii. 123
Jahrfest, Swiss, vi. 184
Jáko, iii. 119
Jaláuri Pass, iii. 125
Jalouz ascended, vii. 211
Jaman, Dent de, in winter, xii. 171
Jamthaler, Ferner, xi. 124
Janga, vii. 101; xiii. 512, 520
— ascended, xiv. 93; xv. 558
— attempted, xv. 318, 528
— height of, xiii. 364
— second peak ascended, xiv. 198
Janigerscharte, ii. 214, 354
Jaun, J., carving by, xi. 192
Jaune, Dent, ascended, xv. 298
Jazzi, Cima di, ascended, P. ii. 365; iv. 67
— — from Macugnaga, vii. 319; viii. 51; xi. 199
J. E. M. Guide, correspondence, xi. 127, 192
Jean Gauthier, Col de, viii. 343; xi. 110
— Jean, Col de, xiii. 191
Jefferson, Mount, viii. 393
Jellalabad, x. 17
Jellinghaus, C., accident to, xiv. 478
Jelu, mountains of, xiii. 298
Jenni, P., death of, xv. 557
Jhala, vi. 391
Jinsong-la, *see* Jongsong-la
Jjollilücke, xii. 123
Joanne, A., obituary notice, x. 231
Jocelme, Pic, without guides, ix. 90, 226, 357; x. 140
Joch Pass in 1544, xii. 182
Jodri ascended, i. 307; ii. 206
— Col du, ii. 206
Jökull, P. ii. 17
Jökull-dals-heidi, P. ii. 87
Jökuls Glacier, P. iii. 437
Jof di Montasio, vi. 197
Johannsbergjoch, ii. 139
Johnson, C. E., pictures by, xv. 167
Johnson, Mr., accident to, viii. 112, 163
Joinville hut, x. 489
Jomfrue ascended, xiv. 508
Jones, C. H., obituary notice, xv. 283
Jones river, xiii. 90
Jongri, xii. 37, 46
Jongsong-la Pass, xii. 441; xiii. 27
Jorasses, Grandes, accident on, xii. 108, 167
— — ascended, ii. 131; iv. 59, 157
— — Col des, i. 430; ii. 114; vii. 104, 225
— — in winter, xv. 370
— Petites, ascended, viii. 345
Jostedal, *see* Justedal
Jotunheim, xiii. 146
Joux, Col de, x. 161
— la plaine, xii. 9

Digitized by Google

Jubonu ascended, xi. 402; xii. 47
Jubrun, *see* Jubonu
Julier, Piz, vi. 104
Jumeaux, Col des (Felikjoch), P. ii. 397
— — *see* Zwillingejoch
— of Valtournanche ascended, ix. 4
Jumnoo, x. 4; xi. 403; xii. 29, 441
Jung, chapel of, i. 93
— Pass, xv. 205
Jungfrau, accident on, in 1872, vi. 97
— accident on, in 1887, xiii. 391, 468
— adventure on, xiii. 55
— ascended, xi. 173
— ascent of, in 1811, P. i. 280
— ascent of upper part by rocks, v. 377
— avalanches, i. 184
— crossed, vi. 94, 297
— crossed in winter, xiii. 466; xiv. 207
— early attempt on, from the Roththal, v. 374
— first ascent, viii. (app.) 49; xiii. 269
— from the Roththal, i. 434; ii. 161; iv. 383; x. 363; xii. 421; xiii. 189, 393, 485; xiv. 35, 245
— from the Wengern Alp, ii. 210; iv. 54; v. 277; vii. 301; ix. 112
— hut on, xii. 171
— in winter, vi. 411; xii. 171; xv. 79, 203
— railway up, xiv. 512
— without guides, x. 386; xii. 424
Jungfraujoch, P. i. 309; i. 97, 201, 434
— height of, i. 202
Jungthaljoch, x. 96
Jurjura range, xiii. 40; xiv. 73, 82
Justedal, iv. 30, 36
Justedals-bræ, v. 55; xi. 148; xii. 268; xiii. 152; xiv. 507
— pass over, xii. 422; xiv. 507

K_2, xii. 28; xiv. 50
Kabru, x. 4; xii. 29, 99, 440
— ascended, xi. 402; xii. 48, 52
Kabyle Highlands, xiii. 40; xiv. 73, 82
Kafirstan, ix. 292; x. 15
Kaga, iii. 119
Kahlamba Mountains, xiv. 56, 397
Kaida, Fr. A., death of, xiv. 141
Kaisereck, accident on, xiii. 399
Kaiserjoch, ix. 32
Kal, xiii. 372
Kalde, xiii. 360, 372
Kaltwasser Sattel, vi. 197
Kaltwasserjoch, i. 199; vii. 131
Kamet, *see* Ibi Gamin
Kamm without guides, xii. 421, 424; xiii. 384
Kamunta, xii. 92, 495, 501
Kánchanjangá, iv. 88; x. 4; xi. 402; xii. 29, 439; xiii. 27
Kangchinghao, xii. 31
Kandersteg, x. 377
Kang-la ascended, xi. 366
— Pass, xi. 208, 406; xii. 37, 50
— — peaks near, ascended, xii. 38, 51
Kanitz, R., accident to, xiv. 328
Kapper Ghatee, vi. 391
Karagam Glacier, ix. 182; xii. 324, 496; xiii. 41
— Pass, iv. 161; xiii. 373
Karakorum Pass, xii. 31; xiv. 50
Karaoul, iv. 165; xiv. 432; xv. 29, 175
Karasu, xiii. 297
Kargil, iii. 149; iv. 194
Kariu Choch, xii. 210
Karkarsoak ascended, vi. 219
Karneid Thal, vii. 357
Kassara gorge, xii. 497
Kastenjoch, ix. 368
Kastenstein, vii. 164
Kaufmann, U., obituary notice, xiv. 249, 321
Kazbek, iv. 166; xi. 473; xiii. 355, 371
— alleged ascent, xii. 330
— ascended, iv. 160; xiv. 452; xv. 558
— from the Devdorak Glacier, xiv. 445
— height of, xiii. 364
Kebneknaisse ascended, xi. 365
Kehlenjoch, ii. 268, 411
Kehrenrück, by S. arête, xiv. 502
— by W. arête, xiv. 501
Keilbachjoch, vii. 237
Kelemen, iii. 27
Kelertingouit ascended, vi. 219
Kerma Pass, iv. 354
Kesch, Piz, i. 318
— — ascended, i. 381
— — without guides, xi. 245
Kessel Kogel ascended, vi. 96; vii. 353
— — height of, viii. 279

Digitized by Google

Khrumkoll Glacier, xiv. 446; xv. 174
— Pass, xv. 174
Kibo, xiii. 475
— ascended, xv. 69
Kienhorn ascended, xi. 363
Kilchfluh Pass, xiii. 423
Kilchistock ascended, viii. 160
— from the W., xv. 89
Kilima-njaro, xiii. 475
— ascended, xiii. 418; xv. 69
— attempted, vi. 51
Kimawenzi, xiii. 475
Kinchinjinga, *see* Kánchanjangá
King of Italy and the Alpine Club, ii. 91
Kion Choch, xii. 314
Kirchet, the, P. i. 411
Kirken, the, v. 161
Kishin Dagh ascended, xv. 322
Kisten Grat Pass, P. i. 375
Kitzsteinhorn, accident on, xv. 273
Kjeipen ascended, xiv. 381
Kjendals-bræ, xi. 148
Klausen Pass, P. i. 372
Klein, A., accident to, xiv. 473
Klein Thal, P. iii. 78
Kleinberg-Jöchl, xiv. 160
Kleinleitenjoch, viii. 161
Klön Thal, i. 120
— — Pass, P. i. 374
Knight's Peak, xv. 422
— — ascended, xv. 425
Knots for roping travellers, ii. 95
Knubel fund, viii. 349, 408, 472
Knubels, the, accident to, viii. 346
Knutsford, Mount, ascended, xv. 72
Knutshultind, v. 165
— ascended, xiii. 155
— from E. side, xii. 470
Kodor, xv. 246
— forest, xiv. 444
— valley, vii. 103
Königsjoch, i. 406
Königsspitze ascended, i. 382, 404
— by N.E. face, xi. 186
— crossed, i. 437
— from the Sulden Grat, ix. 167
— in winter, ix. 492
— without guides, x. 498
Körber, H., accident to, xiii. 398
Kötlugia, vii. 185
Kola nuts, xiv. 326
Komhársen, iii. 122
Koruldu ascended, xiv. 448
Koshtantau, iv. 165; vii. 101; xiii. 116, 229, 246, 354; xiv. 436
Koshtantau ascended, xiv. 88, 90, 182
— height of, xiii. 364
— nomenclature, xiv. 436
Kôt, iii. 125
Kotlu-gja, P. ii. 24
Kotschna, iv. 346
Kranzberg, P. iii. 29
Kraus, J., accident to, xv. 540
Kreiljoch, *see* Cedeh, Passo di
Krestowaja Gora, xiii. 370
Kreutzberg, vii. 25
Kreuzkofel, xiii. 22
Kreuzli Pass, variation of, ii. 409
Krieg Alp Pass, xi. 481
Kriegsmatten, P. ii. 147
Krisuvik, i. 247
Krongberger, J., accident to, xv. 225
Kronlet ascended, vi. 341
Kronstadt, iii. 36
Krukeli Pass, iv. 53; vi. 101
Kuban valley, vii. 103
Kubroo, *see* Kabru
Kühfad Pass, xv. 74
Kuhe Glacier, i. 185
Kuhn, G., accident to, xiii. 391
Kuk, xiv. 419
Kukenam, xii. 127
Kulm Pass, vii. 165
Kulu peak, iii. 55
Kumaon map, the, xii. 265
Kunawur, iv. 82
— peak, iii. 55
Kupfer, A., accident to, xii. 408
Kurdistan, xiii. 293
— sport in, xiii. 300
Kutais, xiii. 371, 375; xiv. 312
Kvandalsbræ, xii. 268
Kvitelvedals Skar, xiv. 509
Kyángchu, iii. 139
Kyélang, iii. 132

Laccia, Forca della, xi. 458
Lacs, Col des, x. 456
Lämmerbüchl, vii. 31
Lämmeren Glacier, P. i. 336
Lämmerenhorn, P. i. 338
— ascended, ix. 493
Lagier, A., obituary notice, xi. 106
Lago, Croda del, without guides, xii. 128
Laguna Larga, iv. 121
Lagyapla, xv. 111
Lahnscharte, accident on, xiv. 140
Lairo Fjäll, vii. 175
Lake dwellings, iii. 190

Digitized by Google

Lakes, access to mountains in the, xiii. 548
— Alpine meetings, ix. 56, 440; x. 45, 422; xi. 124
Láma Yuru, iii. 148
Lambrion, Torre de, vi. 67
Lammergeier, vii. 92; xii. 24
Lana, Col di, x. 71
Landslip, Ararat, xii. 10
— Elm, x. 422
— Goldau, xii. 428
— Rochers des Fiz, xii. 10
— St. Foi, viii. 415, 450; xii. 10
Laneuvaz, Aiguille de, *see* Neuva, Aiguille de la
— Col de, viii. 344
Lang Jökull, P. ii. 115; vii. 51
— Kofel ascended, vi. 96, 202
— Vand, vii. 171
Langada Pass, viii. 318
Langdale Pike ascended, xi. 124
— — in winter, v. 35
Langenfluhjoch, viii. 107
Langerin, Forcella di, vii. 251
Langethal, hut in, xiii. 128
Langtauferer Spitz, ii. 142
Langtaufererjoch, ii. 142
— variation of, xi. 123
Langthaler Glacier, vii. 329
Langthalerjoch, xiv. 466
Languard, Piz, P. ii. 132
— — accident on, xv. 275
Lanier, L., obituary notice, xii. 63
Lanjaron, iii. 6; iv. 122; xiii. 82
Lanolin, xiii. 389
Lans, Grand Glacier de, i. 198
Lanslebourg, inn at, vii. 440; xi. 412
Lansqueour, Glacier de, P. iii. 414
Lanza, L., accident to, xv. 539
Lanzada, Val, P. ii. 142
Lanzo, viii. 315
— new carriage road to, v. 177
Lapland, sport in, vii. 177
Lappach, vii. 285
Lapps, the, iv. 24
Laquinhorn ascended, P. i. 206; viii. 152
— first ascent, ix. 29
— from the Fletschjoch, xiii. 415
— from the Laquinjoch, xi. 363
— nomenclature, xv. 154
Laquinjoch, i. 135, 199, 377, 433; iii. 44; vi. 296; vii. 126; xii. 123
Laquin Thal, pass from, i. 138
Largo, Cima del, ascended, ii. 361; xiii. 191
Larossor, Col de, ix. 99
Lars Næbba ascended, xii. 267
Larsa, iii. 141
Larsec, Val, x. 110
Laste, Monte, ascended, vii. 264
— — Forcella di, vii. 264
Latelhorn ascended, xiv. 502; xv. 210
Latham, H., accident to, x. 365
Latpar Pass, xii. 97; xiii. 371; xiv. 97; xv. 318, 320
Latrigg, xiii. 548
Laudo, Cadin del, Pass, vii. 245
Laugier, Vallon, Col du, ix. 346; x. 128
Lauihorn ascended, xii. 123
Laurel Hill, iii. 214
Lautaret, Col du, P. iii. 216
— — inn on, xiii. 461
Lauteraarhorn, viii. 52
— ascended, x. 493
— attempted, xii. 424
— from the W., xi. 27
— in winter, xiii. 466; xiv. 202
— record left on, xiv. 323
Lauteraarjoch, iv. 155
— accident on, x. 46, 109
Lauteraar Sattel, i. 60; vii. 34
Lauze, Col de la, i. 306; vii. 136, 144; x. 265
— — accident on, x. 365
— — in winter, iv. 323
— — without guides, ix. 232
Laval, *see* Val, la
Lavaredo, Forcella di, vii. 29
Laveno, road to Ponte Tresa, xiii. 38
Lavertezzo, x. 148
Lavey, la, xiii. 57
— Col de la, ix. 94, 355
— hut, x. 489; xi. 412
Lavina, Punta, from the W., xiv. 484
— Torre di, ascended, xi. 115; xii. 78
Lavizzara, Val, x. 63, 155
Lawinen Thor, i. 98
Lazin, Punta, ascended, xi. 115; xii. 79
Leaf, W., photographs by, xv. 394
Lean Pitcher, *see* Cantaro Magro
Lebendun Pass, ix. 369
Léchaud, Aiguille de, ascended, vi. 91, 172
— Col de, viii. 337
Leepee, iii. 61
Legnone, Monte, xii. 343
Léh, iii. 144
— to Cashmere, iv. 193
Leidensee Pass, viii. 176

Digitized by Google

Leila ascended, xiv. 443, 452; xv. 239, 558
Leipsiger Hütte, x. 112, 179
Leisse, Vallon de la, red snow, P. iii. 369
Leiterspitz ascended, xiv. 152
Lengenfeld, iv. 358
Lenk, An der, P. i. 327
— — inn at, vi. 54
Lenta river, P. iii. 168
Lentahorn ascended, xi. 365
Lenzjoch, xiii. 413
Leo, iii. 62
— Porgyul, xii. 31
Leon, i. 223
Leonardo da Vinci on the Rigi, x. 280
— — sketches by, xii. 346
Leone, Monte, ascended, xi. 395
— — first ascent, ix. 30
Lepcha Pass, iii. 63
Lessières, Pointe des, ascended, xiv. 488
Leukerbad, xii. 351
Levanna, ix. 168
— Centrale, ascended, ix. 477; xi. 356
— from the N., x. 406
— from the tunnel to the, table of heights, xi. 333
— Orientale, ascended, x. 356; xi. 25, 355
Levannetta ascended, xi. 115; xii. 80
Level, a, ii. 43
Levigliani, vii. 215, 378
Lewis, W. A., accident to, viii. 346
Liappey Alp, v. 327
Liaz, Bec de la, ascended, xv. 544
Libbey Glacier, xiv. 355
Lightfoot, Bishop, obituary notice, xv. 68
Lightning, effects of, viii. 449; xiii. 193
— — on rocks, xiv. 118
— on Roche Melon, vii. 191
Lille Molla, iv. 436
Lilley, Mount, ascended, xv. 71
Limpiopongu, ix. 45
Linard, Piz, ascended, ix. 113
— — without guides, xi. 182
Linda Glacier, xi. 130; xii. 166
Linth Thal, botany, P. i. 399
Lion, Col du, x. 96, 359; xi. 184
— Tête du, from the N., x. 405
List, R., accident to, xiii. 399
Litzner, Gross, ascended, xv. 315
Liverpool, exhibition, xiii. 263, 292, 337
Livigno, Val, v. 205
Livionaz, Châlet of, P. iii. 292
Lizard's Head, xv. 482
Llanberis Pass, P. i. 419
Lliwedd, by N. face, xi. 239
Llyn Idwal, P. i. 453
— Llydaw, P. i. 435
Loba, Mongo ma, vi. 3
Lobbia, la, ii 13
— Alta, Passo della, vi. 305
Lobhorn, Grosses, ascended, viii. 464
Locana, P. iii. 279
— Val, P. iii. 280
Locarno, x. 56
Loccie, Col delle, i. 50, 75
— Monte delle, i. 76
— — ascended, vii. 320
— — by N.E. arête, xiii. 414
Lochmatter, J. M., accident to, xi. 97
— fund, xi. 99
Locker Spitze, Ausser, ascended, xv. 265
— — Inner, ascended, xv. 308
Lödals Kaupe ascended, xi. 143; xii. 267, 422
— — from the N.E., xiv. 507
Löffel Spitz ascended, vii. 235
Löffeljoch, vi. 95
Loen, inn at, xiii. 128
Lœndal, xi. 152
Lötschen Pass in 1543, xiv. 407
— — in 1840, xv. 61
Lötschsattel, i. 48
Loex, les, accident on, xiii. 399
Lofloden, *see* Lofoten
Lofoten islands, iv. 23, 427
— mountains, iii. 82
Lohner ascended, ix. 438; xv. 533
— Klein, ascended, xv. 311
Lombard, Abbé, accident to, xv. 275
Lombard, Col, viii. 78, 336
— hut, x. 489
Lommi Jaur, vii. 174
Lomnitzer Spitz, iii. 25
Longman, W., obituary notice, viii. 349
Longuer, M., death of, xiv. 141
Lonzahorn ascended, xii. 123
Loppé, G., pictures by, vi. 208, 285; vii. 45; ix. 42, 240, 303; xiii. 338, 462; xv. 97, 393, 508
— photographs by, xv. 96, 394
Loranoure, Tête de, ascended, x. 91

Digitized by Google

Lorichard, Col, xii. 113
Lory, Brêche, xiv. 480
Losetta, Cima di, ascended, xi. 352
— Colle di, xii. 111
Louis Philippe, P. i. 394
Louise, Val, P. iii. 234
— — inn at, i. 68; xiii. 461
Loup, Col du, viii. 332; ix. 359; x. 141
Lourousa, Passo della, ix. 403
Lovere, viii. 85
Lovitel, Col de, vii. 314
— Val de, P. iii. 200
Luc, de, ix. 7
Lucerne, Canton, at the period of the great extension of glaciers, iv. 211
— Gletscher Garten, vii. 267
Luchon, Bagnères de, P. iii. 101
— to Castaneze, i. 383
Ludwigshöhe ascended, xii. 73
— first ascent, P. ii. 377
Luis, Grandé, ascended, xiv. 497; xv. 374
— — Col de la, xiv. 151, 497
Luisettes, Aiguille de, ascended, xv. 261, 301
— Col de, xv. 261, 301
Luissas, Colle del, xi. 353; xii. 111
Lukmanier Pass, new road, iv. 239
Lummi river, v. 358
Lune, Col de la, xiv. 148, 288
— Pic de la, ascended, vii. 211, 317; ix. 362; xi. 15; xiii. 489; xiv. 148, 288
Lúnga Lácha Pass, iii. 137
Lunghino, Forcella di, iii. 19
Luschariberg, church of, iv. 364
Luseney, Bec de, ascended, iii. 49
— Col de, vi. 293
Lusiera, Passo di, ix. 343
Lussart, Punta, *see* Etiache, Rognosa d'
Lykeri, Mont, ascended, ix. 157
Lyngen Fjord, P. iii. 429
Lyre, Grande, Pointe de la, ascended, xv. 544
Lys, Val de, x. 160
Lysefjord, iv. 36
Lysjoch, P. i. 162; P. ii. 359; ix. 309
— early ascents, v. 136
— in winter, xii. 524; xiii. 549
— to Alagna, ii. 413; iv. 56
Lyskamm, accident on, in 1869; iv. 375; v. 23
— accident on, in 1877, viii. 346
Lyskamm ascended, P. ii. 383; viii. 375
— by S.E. arête, ix. 109
— crossed, ii. 414
— early name of, xiii. 555
— from Gressonay, iv. 55, 65
— from the N.E., xv. 307, 441
— from the W., i. 86, 377
— in winter, xii. 260; xiv. 325

MacCallum, A., pictures by, x. 183; xi. 409; xii. 463; xiii. 176; xv. 394
Macdonald, R. S., obituary notice, viii. 120
Machachi, x. 114, 186, 425
Machahói peak, iii. 150
Machos ascended, iv. 123
MacInnes, Mr., accident to, xii. 109
MacLachlan, T. H., pictures by, xii. 463; xv. 97
Maclagan, Mr., pictures by, xi. 409
Macnamara, A., accident to, xv. 275
— obituary notice, xv. 283
MacWhirter, J., pictures by, xii. 169; xv. 167
Madatschjoch, i 382, 400
Maddalena, la, inn at, ix. 499
Maderanerthal, vi. 321; xiii. 133
— accident in, xv. 275
Madia, Capo alla, x. 325
Madlenerhütte, xii. 263
Madonna, Cima della, *see* Sass Maor
— Colle della, ix. 346
— di Finestre, inn at, ix. 499
Männlichen, ix. 214, 486
— botany, v. 109
Märbegglücke, xiv. 514
Märjelen See, disappearance of, P. i. 311; vi. 100; ix. 444
— — soundings of, P. i. 468
Maffiotto, avalanche at, xii. 262
Magellan, Straits of, iv. 327
Maggia, Val, vi. 300; x. 57
Maglich ascended, xiv. 424
Maicha, vi. 390
— to Chini, vii. 259
Maigna, Col. de la, iv. 204; v. 326
Main, Mrs., photographs by, xiii. 176, 524
Maipo ascended, xi. 407; xiii. 558
Maira, the, xiv. 226
Maisama, Forcella di, vii. 255
Maison Blanche, Col de la, P. ii. 241; v. 310
— Grande, la, i. 296

Digitized by Google

Majella, Monte, flora of, viii. 371
— — in winter, ix. 492
Makalu, xii. 444, 522
Mal Infernal, Vallon du, ix. 144
Mala Tau ascended, xiv. 452
Malaberga, Croce di, xi. 370
Maladetta ascended, P. iii. 120
Malaspina Glacier, xiv. 353
Malenco, Val, P. ii. 139; i. 3
Malevo ascended, xiii. 193
Maljasset, x. 129
— inn at, ix. 497
— road to, xi. 241
Malkin, A. T., obituary notice, xiv. 235, 275
Mallet Glacier, vii. 229
— Mont, ascended, v. 297
Malte Brun, Mount, xii. 167
— — range, xi. 140
Malvaglia, Val, iii. 174
Malval, Combe de, P. iii. 216
Mamisson Pass, iv. 161; vii. 100; xii. 210, 324, 497; xiii. 375; xiv. 22
Mana Pass, xii. 32
Manasorava lake, xiii. 40
Mancros, Pic de, ascended, xiii. 401
Mandl, Herr, accident to, xiii. 399
Mandrini, Forcella di, vii. 255
Mandron hut, x. 112, 179
— Passo del, vi. 305
Mandruzzi, Forcella, vii. 255
Manganello, Bocca di, x. 203
Mangert ascended, iv. 363
Maniglia, Monte, ascended, xv. 290
Manila rope, test for, xii. 424
Manji Kanta Pass, xiii. 477
Manteigas, v. 125
Mantel, Roche, Col de, x. 265
Map-drawing in the Chain of Mont Blanc, ii. 246
Maps, Abruzzi, xiii. 129
— Aletsch Glacier, xii. 221
— Algerian, xiv. 82
— Alps, the, ii. 350; xiii. 270
— Bosnia, xiv. 429
— Caucasus, xiv. 57, 436
— Coolins, the, xv. 447
— Dauphiné, xiv. 403
— Himalayas, xii. 44, 53, 265
Maquignaz, J. J., accident to, xv. 274
Maradals Bræ, xiv. 508
Maradalstinder ascended, xiii. 153
— E. peak, xii. 470
Marai, Châlets de, P. iii. 391
Maraja, Forcella di, vii. 18
Marbrées, Aiguilles, ascended, viii. 105
Marcora, Croda, *see* Sorapis
Mare, Passo della, ii. 354
— Pizzo della, ascended, ii. 144; v. 285
Margna, Piz, in winter, xv. 226
Marguerite, Pointe de, ascended, vii. 314
Mariana, Col della, ii. 414
Mariande, Col de la, viii. 99
— Pointe de la, ascended, x. 93
Marinelli, D., accident to, x. 364
Maritime Alps, corrections, xiii. 177
Marmarole ascended, vi. 96, 348
— attempted, xii. 128
— Forcella di, vii. 249
Marmolata ascended, i. 437; ii. 138; vi. 95, 149; xiii. 25
— di Rocca ascended, i. 201
— hut, vii. 338; x. 488
Marocaro, Bocchetta di, v. 187
Marriott, B., accident to, vii. 44
Marschollhorn ascended, i. 380
Marshall, J. A. G., accident to, vii. 110
Marshall Pass, xv. 480
Marsilang, iii. 143
Marson, Forcella di, vii. 17
Marte, Monte di, ascended, xv. 291
Martell Thal, inundation in, xv. 498
Martignare, Col de, v. 129; viii. 63
Martinsloch, P. i. 389
Mary, Pointe de, ascended, ix. 348; x. 128
— Pointe Haute de, ascended, ix. 350; x. 132
Mas de la Grave, Pic du, ascended, xi. 348
Masher Brum, xii. 28; xiv. 51
Mashkapar, xv. 319
Masino, Val, i. 13
— to Sondrio, Pass, ii. 361
Masks, xiii. 390
Masses, Col des, x. 82
Mat, Rocca del, ascended, ix. 339
— — position of, ix. 411
Matarotto, Vedretta di, ii. 14
Mathews, W., order of SS. Maurice and Lazarus conferred on, ii. 91
Matsch, iv. 383
Matscherjoch, ii. 143
Matten Limmi ascended, xiv. 247
Matterhorn, ii. 4
— accident on, in 1865, ii. 148
— accident on, in 1879, ix. 372

Digitized by Google

Matterhorn, accident on, in 1886, xiii. 95, 166, 264, 421
— accident on, in 1890, xv. 274
— adventure on, xiii. 399, 468, 550
— ascended, ii. 148; iv. 158, 189; vii. 389
— attempted, ii. 8; v. 329
— by the Furggen ridge, x. 96
— by the Zmutt arête, ix. 365, 458
— circular rainbow on, xii. 273
— crossed, v. 277; xiii. 50
— dangers of, viii. 447
— from Breuil, ii. 154, 237; iv. 56, 185; v. 259; xiii. 418
— from the Tiefenmatten Glacier, ix. 366
— from the Zmutt Glacier, ix. 449
— hut on, iv. 158; vii. 337
— hut on S. side, ii. 268
— in spring, vii. 268
— in winter, i. 77; x. 494
— Klein, new route up, xiii. 414
— round and over, xii. 420
— snowstorm on, v. 265
— top of, xii. 467
— without guides, viii. 110, 242; x. 419; xii. 128
Matterjoch, i. 135
Mattmark See, inn at, P. i. 222
Matto, Monte, ascended, ix. 339
Maudit, Mont, ix. 170
— — ascended, viii. (app.) 14; ix. 105, 313
— — height of, ii. 421
Maurer, A., accident to, xi. 93
— carvings by, xi. 192
— fund, xi. 97, 179, 242
— obituary notice, xi. 106
Maures, Montagne des, ix. 209, 254
Maurienne, derivation of, xi. 300
Maurin, Col de, i. 67
Mauvoisin, inn at, v. 311
Mawenzi attempted, xv. 70
May, S., accident to, xiv. 476
Maye, Tête de la, xiv. 374
Mayer, E., accident to, xv. 273
Mayrhofen, vii. 233
Méan, Grand, Col du, ix. 100, 475
— — — peaks near, xii. 117
Méande, Col de la, xiii. 401
— Roche, ascended, xiv. 145
Méanmartin, Aiguille de, ascended, xv. 295
— Pointe de, ascended, xi. 357
— Signal de, ascended, xi. 357
Meat, compressed, ii. 29
Medel, Piz, iii. 167
Medelser Glacier, ii. 214; iii. 166
Megève, xii. 144
Meidassa, Monte, x. 456, 481
— — ascended, xi. 114, 352
Meije, P. iii. 216; iv. 322; viii. 64
— accident on, xii. 395
— ascended, viii. 328; ix. 93, 121, 362; xiii. 460; xiv. 326, 376; xv. 542
— ascended by a lady, xiv. 163
— attempted, vii. 418; viii. 178
— attempts on, ix. 135
— Brèche de la, i. 372; vii. 91, 412; x. 265; xiv. 374
— — in winter, iv. 324
— by E. ridge, xii. 392, 410, 460
— central peak, v. 130; vi. 290; vii. 91
— correction, ix. 297
— Corridors de la, Col des, ix. 362
— E. peak, x. 84
— from la Grave, xii. 343, 391, 410
— range of the, i. 302
— — topography, ix. 293
— without guides, ix. 411; xii. 423, 460
Meillerie, vii. 436
Meiringen, fire at, ix. 234
Mel, Val di, vi. 129
Melaja, forest of, xi. 450
Melkedal, xiii. 159
Melkedals-Pig ascended, xiv. 508
Melkevoldsbræ ascended, xii. 267
Mellichen valley, inn, xiv. 519
Melon, Roche, accident on, xv. 539
— — ascended, xiv. 494
— — narrow escape on, vii. 191
Melza, Col de, x. 323
Mens, inn at, x. 488
Mentone, accident at, v. 372
Menue, Pierre, ascended, vii. 316
Mer de Glace, viii. 275
— — advance of, xii. 523
— — death on, vi. 306, 372
— — in 1800, vii. 433
— — in winter, v. 70
Meraviglie, Laghi delle, ix. 345, 393
Mercantoura, Cima di, ix. 409
Mesoncles, Col de, xi. 21, 358
Messnerjoch, xii. 185
Mestia, xiii. 512
— Glacier, xiii. 357
— Pass, xiii. 501
Mesurina, Forcella di, vii. 18
Meta di Filo, Capo, x. 324

Digitized by Google

Meteorology, i. 444; vi. 191; viii. 449; ix. 297, 435; xiii. 193; xiv. 118
Mettenbergjoch, xiv. 157
Meunier, Mont, ascended, ix. 337
Meyer, Lt., accident to, xiv. 139
Meyer, Pian, P. iii. 155
Mezzo, Val di, Forcella del, vii. 243
Mezzo-Dì, Becca di, accident on, xv. 540
— — ascended, vi. 95, 201
— Cima di, vii. 47
Mhadaidh, Sgurr, ascended, xv. 427
Miage, Aiguille de, ascended, P. i. 59; iv. 384
— Col de, P. i. 59, 64; P. ii. 194; i. 201; ix. 25
— — accident on, P. ii. 208
— — height of, P. ii. 222
Mic Coinuich, Sgurr, xiii. 442
Michel, C., death of, x. 46
Micocci, J., pictures by, xiii. 292, 339, 462; xiv. 403
Middags Næbba ascended, xii. 267
Midi, Aiguille du, ascended, P. ii. 193; v. 44; x. 27
— — avalanche of stones on, v. 151
— — by the eastern rocks, vii. 318
— — by N. face, xi. 215
— — descent to the Glacier des Bossons, iv. 383: v. 145
— — first ascent, ix. 20
— — from the N., vi. 293
— — in winter, xi. 242
— — narrow escape on, v. 151
— — second peak of, xi. 362
— de la Grave, Aiguille du, *see* Meije
— Dent du, accident on, xiv. 138
— — ascended, P. i. 83; xiii. 210, 485; xv. 298
— — first ascent, ix. 27
— de Peisey, Aiguille du, ascended, ix. 98
— — — note on, ix. 169
Midtmockstind ascended, xii. 471; xiii. 158
Migotti, A., accident to, xiii. 114
Mikletveitveten, circular rainbow on, xii. 173
Milchbachloch, ix. 486
Military mountaineering, x. 238
Millaris, Col de, xii. 22
Miné, Mont, i. 93
Minuta, Punta, x. 324
Misauna Chalet, viii. 199
Mischabel, derivation of, ix. 278, 284
Mischabeljoch, i. 125; iv. 57; viii. 152, 381; xiii. 164
Mishirgi Glacier, xiii. 245
— — retreat of, xiii. 228
— — view from, xiii. 367
— Pass, xv. 174
— Tau, xiii. 369
— — ascended, xiv. 446; xv. 176
— — attempted, xiv. 92, 192
Mittaghorn ascended, viii. 341; ix. 64
— to the Egginerhorn, xiii. 182
Mittelbergerjoch, ii. 141
Mittelhorn ascended, ix. 487
Mitteljoch, i. 433
Mittelrück ascended, xiii. 415
Mittelthor, xi. 200
Mjölnir ascended, xiv. 390
Modane, P. iii. 400
— inn at, xii. 271
Moel Hebog ascended, xi. 242
Mönch ascended, i. 83, 137, 423
— attempted, i. 82, 85
— crossed, vii. 325
— first ascent, viii. (app.) 80; xiii. 265
— from the Eigerjoch, viii. 341; xiii. 383
— from the Wengern Alp, ii. 364; vi. 94; vii. 294; xiii. 128
— hut, ii. 224; vii. 164
— in winter, xiii. 269; xiv. 249
— without guides, xii. 424
Mönchjoch, i. 83, 97; vii. 301
— without guides, x. 419
Mörchenspitze, Gross, viii. 161
Mörkfos waterfall, v. 57
Mösel Ferner Spitz, Hoch ascended, ii. 140
Möselenock ascended, ii. 140; vii. 285
Moghegno, x. 59
Moine, le, ascended, xv. 543
— Aiguille du, ascended, xv. 78, 297
— — in winter, x. 494
Moiry, Col de, i. 432
Mojanda, x. 374
Moldavia, roads in, iii. 29
Moléson, accident on, xiii. 398
Molla, Lille, iv. 436
— Store, iv. 436
Molveno, i. 442; viii. 167
— Cima, attempted, xi. 317
Moming Pass, i. 376; ii. 134, 191

Digitized by Google

Moming Pass from the Rothhorn, vi. 295
— — variation of, vi. 145
Mominghorn, Ober, ascended, xiii. 123
Monal, Mount, ascended, xi. 366; xii. 44
Moncayo, vi. 59
Monciair, Becca di, ascended, xiv. 149, 289
— Col de, x. 356; xi. 26; xiv. 149, 289
Moncimor ascended, x. 174; xii. 79
Moncorvé, Becca di, ascended, xii. 419, 519
Mondifra I. ascended, xi. 320
Monei, Col de, i. 200
— — variation of, xii. 415, 510
— Coupé de, x. 354; xi. 19
— Tête de, ascended, vii. 211; xii. 416, 512; xiii. 489
— — nomenclature, xiv. 485
Moneri, vi. 388
Monfret, Cima, ascended, xii. 118, 413
Mont, Col du, ii. 28
— Grande Becca du, ascended, xiv. 494
Montandeyné, Becca di, ascended, vii. 316; xii. 417, 517
— Col de, *see* Bonney, Col
— Glacier de, P. iii. 414
— Pointe de, ascended, xi. 18
Montanvert in winter, v. 70
Montasio, Jof di, vi. 197
Montée du Fond, Col du, vii. 150; viii. 70
Montets, Grands, Aiguilles des, ascended, i. 259
— — — in winter, xi. 242
— — Col des, in winter, xi. 242
Monthey, blocks of, P. i. 415
Monticella, Forcella di, vii. 248
Montserrat, xi. 226
Monvoisin, *see* Mauvoisin
Moore, A. W., obituary notice, xiii. 186, 258, 291
— picture of, xiii. 351
— tablet to, xiii. 465
Moraines in the Caucasus, xiii. 367
Morcles, Dent de, ascended, xi. 370
Morena, Sierra, vi. 61
Morgenberghorn, accident on, xiii. 398
Moro, Monte, i. 49; ix. 280
— — accident on, xi. 345
Moro, Monte, in 1543, xiv. 407
— — in 1840, xv. 52
Morocco, travellers in, vi. 220
Morrone, Monte, viii. 363
Morte, la, hut, xii. 189
Morteratsch Glacier, P. ii. 160, 165
— — legend of, P. ii. 170
— — retreat of, viii. 277
— Piz, accident on, i. 437
— — ascended, iv. 52; xi. 122
— — by S. ridge, xiv. 159
— — from the Tschierva Glacier, x. 100
Morts, Col des, P. i. 97
Moseley, W. O., accident to, ix. 372
Motte, la, chalêt, ix. 238
— Grande, ascended, i. 374; ii. 187
— — Col de la, viii. 101
— — from the S., xiv. 481
Mottiscia, Punta, *see* Hüllehorn
Moucherolle, Grande, ascended, ix. 176
Moulins, origin of, P. ii. 363
Mounier, Mont, ascended, ix. 337
Mountain midgets, xiv. 63
— sickness, v. 244; xiii. 325
— tops, xi. 381
Mountaineering, comparative skill of travellers and guides, v. 87; xii. 289
— dangers of, *see* Alpine dangers
— early, xiv. 406
— growth of, x. 251
— hints for, ii. 1
— historical, xii. 178
— in winter, i. 77, 288; iii. 207; iv. 309; v. 62, 246; vi. 405; vii. 211, 436; ix. 213, 307, 491; x. 258, 418, 495; xi. 182, 239, 242, 253, 411, 479; xii. 171, 260, 524; xiii. 22, 73, 269, 466, 549; xiv. 200, 248, 324; xv. 78, 153, 199, 226, 370, 444
— made easy, xiv. 326
— military, x. 238
— qualities required for, v. 89
— training of guides, v. 91
— without guides, viii. 110, 242; ix. 90, 219, 411; x. 138, 418, 498; xi. 121, 181, 245; xii. 128, 423, 460; xiii. 188, 378, 466, 522, 550
— — — dangers of, v. 93
Mountaineers, equipment for, xv. 458
Mountains, temperature of, vi. 275
Mountet hut, v. 275; vii. 337; xiv. 519
— Pointe de, ascended, v. 275

Digitized by Google

Mourti, Pointes de, ascended, xv. 556
Moutiers, P. iii. 356
Muanda, la, xii. 510
— Col della, x. 159
Muande, Col de la, i. 429
— — without guides, ix. 91, 231
Mühlwalder Thal, vii. 285
Müller's peak ascended, xiii. 494
Mürtschenstock, P. i. 375
Mugbi, Palu di, ascended, ix. 306
Mulahaçen, xiii. 83
— ascended, iii. 11; iv. 121
Mulets, Grands, in winter, v. 73; xi. 255
Mulinet, Pointe du, ascended, ix. 100, 476
Muller, W., photographs by, xii. 464
Munia, Pic de la, ascended, xii. 20
Munteratsch, Piz, vi. 104
Munz, M., accident to, xiii. 113
Muraille, Rouge, Col de la, xi. 358; xii. 84
Murailles, Grandes, Col des, xiii. 173; xv. 263
Murajon, inn at, ix. 499
Muraun, Piz, ascended, x. 296
Murchison, Mount, viii. 387
Murgun Pass, iv. 203
Murray, A. H., pictures by, xv. 97
Muschem, Val, v. 280
Musgrave, Mount, ascended, xv. 71
Music and musical instruments, iv. 209
Mussoorie, vi. 387; xi. 208
Mustagh Pass, xiv. 50
Mutten Pass, xiv. 155
Mutthorn ascended, i. 380
Muzart Pass, xiii. 47
Muzelle, Col de la, vii. 151
— Roche de la, ascended, vii. 314
— — attempted, vii. 410
Myrdals Jökull ascended, vii. 179
Myvatn lake, vii. 52
Myvatus Orœfi, viii. 173

Nachar Pass, vii. 103
Nadelhorn ascended, ix. 367; x. 337; xiii. 413
— from the Hohberg Glacier, xi. 175
— from the S., xiii. 125
Nadeljoch, iv. 365; x. 336; xiii. 125
Näfels, battle of, P. i. 371
Næsdals-bræ, xi. 152
Nässihorn ascended, xiii. 189
Nafdisio, Cima di, *see* Vallon, Cima di
Nagkunda, iii. 55
Naiguatá, Pico di, ascended, vi. 50, 101
Najarnola, Forcella di, vii. 27
Nakarala forest, xiii. 375
Nakra Neskra, xiv. 444
Naksagar Pass, xiii. 372, 512
Naltshik, xiii. 252, 354, 370
Namar, P. ii. 98
Námika-la Pass, iii. 148
Nanda Devi, xii. 28, 52
— — attempted, xi. 366; xii. 43
Nanga Parbat, xii. 28, 446
Nant Francon, P. i. 446
Nanzer Thal, i. 140
Naranjal, valley of, x. 431
Naret, Passo di, x. 157
Narkánda Pass, iii. 120
Narsing, x. 4.; xi. 403; xii. 442
Nasta, Cima di, ascended, ix. 89, 406
— — height of, x. 46
Nauders, fire at, ix. 500
Navettes, Col des, ix. 358
Naye, Rochers de, in winter, xii. 171
Nebbin, Forcella di, vii. 255
Negoi, iii. 26
Neige Cordier, Pic de, x. 268
— — — ascended, x. 85; xiii. 404
Neige des Ecrins, Dôme de, *see* Ecrins, Dôme des
Nel, Col de, iii. 108
Nendaz, Val de, xi. 238
Nepal Mountains, x. 4
Ner, Piz, ascended, ii. 214; vi. 336
Nera, Punta, ascended, xiv. 146, 281; xv. 441
Nero, Monte, i. 4
— — ascended, xiii. 120
Neskra Kodor, xiv. 444
Nesthorn ascended, ii. 211; vi. 93
— circular rainbow on, xii. 173
— from the S.E., vii. 326
— without guides, x. 419
Nethou, Pic de, pass near, i. 383
Neuchâtelois, Hotel des, xii. 177
Neuva, Aiguille de la, ascended, xiv. 151, 405
Nevada, Sierra, iii. 1; iv. 113; vi. 58; xiii. 80

Digitized by Google

Nevada, Sierra, botany, iv. 115
— — glacier on, iv. 120
— — table of heights, iii. 3
Neve, Cadin della, vii. 19
— Col della, x. 70
New Guinea, xii. 127
— — mountaineering in, xv. 71
— — table of heights, xv. 72
New Zealand Alps, vi. 364; x. 237
— — Alpine Club, xv. 558
Nichols peak, xiii. 93
Nicolosi, P. i. 478
Niederjoch, xii. 125
Niera, Roch della, ascended, xiv. 144
Niesen, accident on, xi. 99
— in winter, xii. 172
Nigaadsbræ, iv. 31
Nimroud Dagh, structure of, xiii. 294
Niolo, x. 209
Niti Pass, xii. 34
Nivolet, Croix de, Col de la, P. iii. 285
— — — ancient glacier, P. iii. 287
— — — in 1843, xv. 132
Noana, Val, x. 68
Noasca, P. iii. 279
Noaschetta, Becca di, ascended, xiv. 148, 287
— Col, xii. 520
Noir Glacier, P. iii. 192
— — Col from, x. 345
Nona, Becca di, ascended, P. ii. 261; P. iii. 264
Nonne, la, ascended, xv. 329
Nonza, x. 211
Noon Coon peaks, iv. 198
Nord End ascended, P. ii. 412; vi. 145; viii. 339; ix. 108
Normann, A., pictures by, xv. 508
Norway, avalanches in, v. 55
— botany, iv. 19
— food, iv. 13
— guides, v. 170; xi. 145; xii. 268, 423; xiii. 148
— huts, xiii. 147
— inns, xiii. 128
— mountains and glaciers, iv. 30
— roads, iv. 7
— routes to, iv. 2
— sport in, iii. 78; iv. 18
— travel in, iv. 1; viii. 49
Noshka Pass, xiii. 373; xiv. 17
Noumenon ascended, xi. 358; xii. 82
Nowell, Mr., pictures by, xv. 167
Nuamquam, xiv. 191, 449
Nuchek, xiii. 178, 428
Nuefelgiu Pass, ix. 63; xi. 398
Nüfenen Pass, xiv. 406
Nuijin Sangra, xiii. 27
Nungoo, Mount, xii. 441
Nuova, Col della, *see* Arietta, Col de l'
— Porta, Col de la, vi. 110
Nups-vatn river, P. ii. 31
Nursing, *see* Narsing
Nuz, vii. 435
Nynee Tal, xi. 366

Obelisk, Yosemite valley, ascended, v. 394
Oberaarjoch, hut on, xi. 242
Oberalpjoch, vi. 334
Oberalpstock, vii. 266
— ascended, vi. 332; ix. 369; x. 307; xiii. 133
Oberbacherjoch, ii. 139; vii. 30
Obergestelen, inn at, vii. 165
Ober-Grindelwaldjoch, i. 197
Oberland, nomenclature, ii. 252
Oberthaljoch, xv. 72
Obiou, Tête de l', ascended, x. 347
Obituary, Alpine, xi. 78
Oche, Dent d', in winter, xii. 171
Ochsenhorn, i. 97
— ascended, iv. 155; xv. 309
— by N. arête, xiii. 122, 268; xiv. 514
— by W. arête, xiv. 156
— in winter, xiii. 466
Ochsenjoch, iv. 155; xiii. 267
Ochsenstock ascended, iii. 157
Ochsner from the Gunkel Kaar, x. 101
Oelgruben Spitze, Vordere, N. peak, x. 361
Œschinen Alp, accident on, xi. 99
Ofen Fuorcla, ii. 213
Ofenhorn, by S.W. arête, xiv. 153
Ofenjoch, viii. 341; ix. 63, 171; x. 98; xiv. 154
Oin, Cima d', position of, xiii. 407; xiv. 482
— Col d', xiv. 482
Olan, Aiguille d', ascended, viii. 342; x. 90
— Col d', vii. 316; ix. 231
— Pic d', ascended, vii. 316; viii. 331; ix. 361, 412; x. 95; xiii. 57
— — ascents of, xiii. 72
— — summits of, xiii. 70

Digitized by Google

Old Man of Skye ascended, x. 111; xiii. 265, 436, 442
Olden, inn at, xiii. 128
Oldenhorn ascended, P. i. 345
Olen, Col d', viii. 135
— Colle d', iv. 57; viii. 379; xii. 65, 524
— — in 1840, xv. 50
— — inn, x. 161
Olive, Fort de l', accident at, xiv. 139
Oliveto, Monte, xii. 67
Ollen, Colle d', *see* Olen, Colle d'
Ollomont, Pass to, from the Mont Durand Glacier, P. ii. 255
Olmenhorn ascended, xiii. 171
Olmi Capella, x. 319
Olperer ascended, x. 102
— hut, x. 489
— without guides, x. 498
Olympus, Mount (N. America), xii. 305
Om Shaumer ascended, i. 205
Ondella, Bocca de l', x. 317
— Col de l', xi. 450
Ondezana ascended, ix. 363; xi. 15; xii. 416, 510
Onge, Forcella d', vii. 256
Onsdags Fjeld ascended, xii. 267
Oo, Lac d', P. iii. 101
— — botany, P. iii. 123
— Port d', P. iii. 106
Opillous, *see* Aupillous
Orca, Val d', Passes, P. iii. 275
Orcières, inn at, x. 488
Oren, Combe d', P. ii. 295
Orieto, Forcella d', vii. 14
Orizaba attempted, iii. 210
— height of, xv. 371
Ormelune ascended, xiii. 120
— Col d', ii. 389
— E. peak, ii. 207, 389
Ornon, Col d', vii. 315
Orny, Glacier d', P. ii. 192
— — hut on, ix. 236
Oro, Monte d', ascended, iv. 301
Orœfa Jökull, P. ii. 51; vii. 51
— — ascended, P. ii. 123; xv. 559
Ortiga, Colle dell', ix. 346
Ortler district, bounty fund for guides, xiii. 481
— group, table of heights, i. 416
— — topography of, i. 385
— Spitze, i. 46; ii. 48, 424; vi. 301
— — accident on, xiv. 476
Ortler, Spitze, ascended, i. 382, 410; vi. 443
— — by the Marltgrat, xiv. 505
— — by the old route, xii. 178, 529
— — circular rainbow on, xii. 174
— — early ascents, ii. 301
— — from Ende der Welt Ferner, ix. 370
— — from the Hochjoch, vii. 328; xiv. 505
— — from St. Gertrud, v. 285
— — from Sulden, iv. 53
— — in winter, ix. 492; xiv. 248
— — new route, xi. 186
— — without guides, x. 498
Ortlerjoch, ii. 143
Oskjugjá, the, viii. 173
Osteno, road, xiii. 39
Otago, mountains in, xi. 140
Otemma, Col d', x. 492; xv. 261
— Glacier d', P. ii. 301
— peaks, nomenclature, xii. 523
Otovalo, x. 369
Ottersbalm ascended, vi. 337
Ouaransenis, xiv. 83
Ouglietta, Pointe de l', xiv. 489
Ouille, Cima dell', ascended, xii. 413
— d'Arbéron ascended, xi. 353
Ouliarse, Punta dell', *see* Collerin, Mont
Oulie Cecca, xii. 523; xv. 473
— — Col de l', xi. 239
Oulx, inn at, ix. 497
Ours, Montagne de l', ix. 358
Ovo, Croce d', Pass, xi. 449
Owen Stanley range, xii. 127; xv. 71
Oyace, P. ii. 264
Oysans, Bourg d', P. iii. 184, 200
Ozieri, viii. 127
Ozone at different altitudes, P. iii. 445

PACCARD, M. G., engraving of, xii. 342
Pacific slope, mountaineering on the, v. 357; viii. 233, 385
Pack, suggestions as to carrying, iii. 95
Padon, Forcella di, vii. 167
Paesana, P. iii. 170
Pätigorsk, xi. 473
Pagari, Passo di, ix. 343
Paglia Orba, x. 208, 324; xi. 455

Digitized by Google

Pagliara, la, viii. 367
Pain de Sucre ascended, xv. 543; *see also* Aiguillette
Paine, Miss E., pictures by, xiii. 462
Pajuhorn ascended, vi. 48
Pala, Cimon della, iv. 395, 401; vii. 58
— — accident on, xiv. 138, 327
— — ascended, v. 111; viii. 115, 162; xiii. 456; xv. 151
— — height of, viii. 279
— — without guides, xi. 182
Pale, derivation of, ix. 55
Palet, Col du, P. iii. 356; ix. 484
Pallavicini, Marquis, accident to, xiii. 54, 110
Palle, Forcella di, vii. 251
Palü Pass, i. 436
— Piz, ascended, i. 137, 341
— — escape on, ix. 119, 164
— — in winter, xv. 153, 444
Pandim, x. 4; xi. 403; xii. 39, 103, 442
Panestrel ascended, x. 349
— Col de, x. 349
Pania della Croce, x. 402
— — ascended, vii. 214, 378; xi. 324
Panosseyre, Col de, xv. 300
Panticosa, xi. 401
Papaver Alpinum, v. 76
Paradis, Grand, ascended, P. iii. 408; ix. 5; xi. 18; xii. 519; xiv. 517
— — attempted, ix. 479
— — Col du, xiv. 286
— — from Ceresole, vii. 318
— — from Cogne, vi. 91; vii. 1; viii. 84, 102
— — from the E., xiv. 147, 284
— — from the Pointe de Montandeyné, ix. 363
— — in winter, xii. 260; xiv. 324; xv. 445
— — nomenclature, P. iii. 316
Parassée, Dent, ascended, i. 373; ii. 177; ix. 104; xii. 260
Pareis, Grandes, *see* Bessanese
Parella, Bocca di, x. 317
Paresseux, Col des, accident on, xiv. 139
Parières, Col de, xii. 410
— Pic de, ascended, xii. 115, 190, 411
Paris, congress at, ix. 154
— meeting at, xv. 77
Parrachee, Dent, *see* Parassée, Dent
Parrotspitze ascended, i. 199; xii. 73
— and Ludwigshöhe, pass between, vii. 321
Parseyerspitze, accident on, xiii. 399
Parsons, A., pictures by, xiii. 462
Parung Law, ix. 289
— Pass, iii. 66
Pass Mta, xiii. 373
Pasterze Glacier, xii. 309
Paterson, N. H., accident to, viii. 346
Pattes des Chamois, Pointe des, *see* Camosci, Punta dei
Pauvres, Col des, P. i. 97
Pavé, x. 266
— ascended, ix. 356
— Col du, x. 266
Payerhütte, xii. 263
Peak marked 2,925 ascended, xv. 313
— — 3,219 ascended, xiv. 501
Peaks and passes, table of, P. iii. 506
Peau Blanche, Aiguille de la, ascended, x. 31
Péclet, Aiguille de, ascended, ix. 103
— Col du, vii. 150; viii. 70; xiii. 405
Pedranzini, B., accident to, x. 364
Peepsa Fly, xii. 46
Peisey, inn at, i. 115
— Val, P. iii. 358
Pelaou Blanc ascended, xiv. 488
Pelat, Mont, ascended, ix. 336
Pellice, Val, P. iii. 143
Pelmo ascended, vi. 257, 367
— botany, vi. 368
— in winter, x. 495
— without guides, xi. 182
Pelvat, Tête du, ascended, x. 349
Pelvo d' Elva ascended, xv. 330
Pelvoux, Crête de, ascended, viii. 329
— Mont, ascended, P. iii. 223; i. 155; v. 133; x. 86; xiv. 377
— — attempted, P. iii. 229; i. 66
— — from the W., x. 347
— — without guides, ix. 227
Peñalara, vi. 62
Peñamellera, Pico de, vi. 70
Peñaranda, Pena de, demolished, vi. 71
Peñas, Val de, iv. 115
Penhall, W., accident to, xi. 93
— obituary notice, xi. 103
Penne Rosse, Capo, x. 324
Péou Roc ascended, xiv. 144
Perçee du Reposoir, Pointe, v. 292
— — — ascended, xii. 137

Digitized by Google

Perçee du Reposoir, Pointe, from Cluses, xv. 331
Percia, Cima di, ascended, xii. 413
Perdu, Mont, i. 133
— — ascended, iv. 337
Périades ascended, xi. 362; xv. 333
Peroi, Forcella di, vii. 250
Perrant, Col, viii. 60
Perroc, Dent, ascended, vi. 27; xiii. 173
— — by Pointe des Génevois, xv. 545
— — from the N.W., xv. 302
— — N. peak, xv. 303
— — structure of, viii. 18
Perros, Puerta de los, iv. 115
Pers, Aiguille, ascended, xiii. 119
— Glacier, accident on, xiii. 395, 468
— Munt, legend of, P. ii. 170
Pescara, viii. 363
Pesio, Certosa di, xi. 304
— — inn at, ix. 409; xi. 370, 412
Peter Botte Mountain ascended, vi. 189
Petermann, A., obituary notice, ix. 120
Petermann Spitze, v. 266
Petersgrat, i. 48; viii. 274
— without guides, x. 419
Petrarch, ix. 183
Petrus, J., accident to, xi. 90
— fund, xi. 242
— obituary notice, xi. 104
Petsch Vrh ascended, iv. 360
Peuteret, Aiguille de, ascended, ix. 1
Peyrou d'Amant ascended, vi. 288; vii. 83
Pfaffenjoch, ii. 141
Pfaffennieder, hut on, xv. 558
Pfitscherthal hut, x. 489
Pflerschthal, hut in, xiii. 265
Pfossen Thal, xiv. 465
Phillip, C. B., pictures by, xi. 409; xii. 168, 287, 463; xv. 97
Phosphorescent snow, P. iii. 52, 71; i. 143
Photographic apparatus, iv. 406
Photography, iv. 217, 402; xi. 63; xv. 472
Photo-la Pass, iii. 148
Pian, Monte, Forcella alta del, vii. 18
— — Forcella bassa del, vii. 18
Pianile, Bocca, x. 319
Piano del Re, inn at, x. 487
Piantonetto hut, xiv. 519
Piccola, Colle della, ix. 478; xii. 81
— Forcella, vii. 241
Pichincha, x. 193
Picture exhibitions, ii. 95, 318; vii. 45; ix. 302; x. 282, 497; xii. 341; xiii. 337; xv. 167, 507, 571; *see also* Alpine Club Picture Exhibitions
Pièce, Glacier de, P. ii. 282
Piedo, Passo di, vii. 28
Pierre, Bonne, Glacier de la, i. 167
— Fendue, Col de, ix. 92
— Joseph, Col de, ii. 365, 415; iii. 99
— Menue, *see* Scolette, Aiguille de
— Petit, Col de, ix. 362
— Pointe, Rocher de, ascended, xv. 295
— Pointue, inn at, i. 431
Pieska Jaur, vii. 175
Pietra Camela, viii. 366
Pietrella, Bocca, x. 318
Pietri, A., accident to, xiv. 139
Pieve di Buono, inn at, v. 188
Pilat, Mont, xiv. 245
Pilatte, Col de la, i. 373; vi. 292; vii. 143
— Refuge de la, x. 488; xi. 241
Pilatus, accident on, ii. 420
— ascended in 1555, xii. 428
— model of, iv. 153
Pilatusscharte, accident on, xiv. 473
Pillar Rock ascended, x. 45
Piméné, electricity on, i. 202
Pinier, Grand, ascended, x. 88
Pino, x. 211
Pinzolo, i. 442; v. 255; viii. 167; ix. 304; xi. 122
— inn at, v. 256
Pioda, Forcla di, v. 48
Piodajo, Passo di, x. 149
Piodejoch, vii. 321; xii. 77
Pisanino, vii. 387; xi. 327
Pisgana Pass, ii. 11
Pisoch, Piz, ascended, v. 282
Pistoja, meeting at, viii. 53
Pit, Mount, viii. 393
Pittinaja, Col, x. 324
Pitzthal Jöchl, xiv. 465
Piz, Il, ascended, x. 68
Pizzo, Cima del, *see* Loccie, Monte della
Plan, Aiguille du, adventure on, x. 443
— Crête de, ascended, xv. 304
Planail Thal, xiv. 462

Digitized by Google

Planards, Col des, i. 430; ii. 44
Planaval, P. iii. 385
— Col de, ii. 267
Planereuse, Col de, xiii. 191
Planspitze, accident on, xiv. 478; xv. 225
Plantrin, Col de, ii. 208, 391
Plaret ascended, ix. 356; xiv. 374
— Col du, xii. 116
Plassas, Rocher de, ascended, x. 491
Plat, Aiguille du, ascended, viii. 98; ix. 361; x. 346; xii. 395, 424
— — by E. arête, xiv. 480
Plat de la Selle, Aiguille du, ascended, viii. 100
Platé, Col de, xii. 16
Platei, Desert de, v. 291
Platt Kogel, vii. 352
Platta, Piz, ascended, iv. 218
Platteikogel ascended, xv. 159
Platten, the, i. 61
— inn at, iv. 239
Plattenhörner in winter, v. 65
Platter family, xii. 380
Pleureur, Mont, ascended, iv. 205; v. 276, 329
— — by S.W. arête, xv. 299
Plines, Pointe des, demolished, i. 266
Pliva waterfall, xiv. 430
Plomo, Monte, iv. 331
Po, source of, ix. 54
Polie, Roche, vii. 434
Pollesthaljoch, xiv. 465
Polokonko Pass, xi. 211
Polset, Aiguille de, ascended, P. iii. 401; ix. 102, 176; xii. 269
— — E. peak, xii. 120
— Col de, ix. 176
Pomagagnon, Forcella di, vii. 13
Ponsonnière, Col de la, viii. 79
Ponte, P. iii. 275; viii. 313
— Al, xi. 396
— — inn at, x. 487; xv. 152
— Tresa, xiii. 38
Pontresina, botany, v. 110
— derivation of, P. ii. 151; ix. 263, 287
— guides, i. 141, 205, 352; ii. 407; vi. 430
Popena, accident on, xiv. 475
— ascended, vi. 398
— Forcelli di, vii. 15
Popera, Cima, ascended, xv. 442
— Monte, ascended, vii. 257
Popocatapetl ascended, iv. 234; viii. 280; xiv. 403
— height of, xv. 371
Poppe, R., accident to, xv. 273
Portes, Croix des, ii. 56
Portetta, Col de la, v. 291; xii. 11
Portiengrat, by W. face, xv. 307
— second peak, xi. 117
Portienhorn ascended, xi. 181, 392
Portillon, Lac de, P. iii. 106
— Port de, P. iii. 108
Portlijoch, vi. 337
Portons, Pointe des, ascended, xv. 299
Poschiavo, inn at, i. 96
Posets, Pic des, ascended, P. iii. 113
— — botany, P. iii. 114
Poshkum, iv. 196
Pourri, Mont, ascended, P. iii. 403; i. 112; ix. 97
— — by S. arête, xii. 119
— — from the N.W., vii. 150
— — hypsometry, i. 119
— — S. peak, P. iii. 394
— — topography, i. 114
Poussets, les, P. iii. 310
Pra Fiori, ridge of, v. 258
Pradidali, Cima di, ascended, xv. 368
Pradlèves, inn at, ix. 498
Pragerhütte, xii. 263
Pralognan, P. iii. 372
— fête at, x. 419
— Grand Bec de, ascended, ix. 176; xiii. 118, 406
— S. peak, xiii. 117
— inn at, ix. 238; x. 488; xii. 270
Prato, Col di, x. 331
— Magno, xiii. 557
— Val di, vi. 301
Pratt, J. H., death of, ix. 118
— obituary notice, ix. 119
Prazzo, inn at, ix. 498
Pré Nouveau, Col du, viii. 77
Predil Pass, vi. 435
Prenj Planina, xiv. 417
Prerayen, cheesemaking, P. ii. 291
— passes from, P. ii. 288
Près les Fonds, Pic des, ascended, xiii. 402
Presanella, ix. 306
— ascended, i. 436
— Bocca di, x. 104, 363
— by N.E. arête, x. 362
— in winter, xv. 226
Presena, Passo di, x. 179; xv. 363

Digitized by Google

Presena, Passo di, accident on, xiv. 141
Prievlusa, Piz, ascended, xiv. 160
Prievor, xiv. 421
Primiero, viii. 278 ; x. 68
— peaks of, iv. 385
Prina, Ch., pictures by, xiii. 463
Prix, E., accident to, xiii. 399
Process of determining depth, vi. 282
Psegaschko Pass, xii. 325
Pucelle, Saut de la, P. iii. 216
Puckle, C. K., accident to, xiii. 53
Puissaillé, Col de, x. 265
Pundim, *see* Pandim
Punmah Glacier, xiv. 55
Purity, Mount, ascended, xv. 421
Pusterthal, iv. 347
Puy Mary, x. 39
Puzata, Piz, ascended, x. 308
Pyrenees, botany, ii. 47 ; vii. 367 ; xii. 23
— brigands, v. 246 ; vi. 72
— electricity, i. 202
— guides, xii. 21
— sport, P. iii. 118
— spring in, vii. 47
— table of peaks and passes of, P. iii. 538

Quains, the, iv. 26
Quart Dessus, Cime de, ascended, xiv. 489
Quatervals, Piz, ascended, v. 279
Queen of Italy, xiv. 163, 511
Quelljoch, xiv. 160
Quenanger Fjord, P. iii. 436
Quensel, H., murder of, i. 138, 207
Querceta, vii. 377
Queyras, xiii. 200
— Combe de, P. iii. 135
Queyrette, Pic de, ascended, xv. 292
Quito, x. 187, 194, 375
Qvickjock, vii. 178

Rabbi, inn at, vi. 303
Radiche, Punta, x. 319
Raillard, H., death of, xiv. 479
Railways, xv. 79, 222
Rainbows, circular, xi. 482; xii. 172, 271 ; xv. 329
Rainfall, P. i. 269 ; vi. 275
Rainier, Mount, ascended, vi. 192 ; viii. 389
— — attempted, viii. 235
Rainier, Mount, glaciers of, xii. 305
Rainthal, vii. 330
Rajette, xii. 523
Rakaposhi, xii. 445
Raldung peak, iii. 59
Ram Koond, ix. 291
Ramf, Passo, x. 150
Ramière, Punta, xi. 351
Ramin Pass, P. i. 375
Ramoljoch, xiv. 465
Rampore, iii. 57
Ranalder, A., accident to, xiii. 398
Randall, Mr., accident to, v. 188, 196
Ranggetiner, C., accident to, xii. 408 ; xiii. 54, 110
Rarefied air, effects of, *see* Breathing at high altitudes
Ras Timedonine ascended, xiii. 40
Ratang, iii. 119
Râteau ascended, vi. 290 ; vii. 137 ; viii. 100
— attempted, vi. 288 ; vii. 84
— Brèche du, vii. 146, 151
— by S.E. face, xi. 108
— crossed, x. 266
— without guides, ix. 92, 232
Ratier, Aiguille du, ascended, x. 168
Ratschach, iv. 359
Rauhkofel Pass, vii. 16
Raurisr Tauern, phosphorescent snow, i. 143
Rax Alpe, accident on, xiv. 328 ; xv. 225
Rebbio, Punta del, *see* Bortelhorn
Records on mountain tops, xii. 467 ; xiv. 323
Red snow, P. i. 379; i. 152; xii. 319
Redessau, Monte, xv. 263
Redorta, Monte della, ascended, vii. 328, 462
— Passo di, x. 149
Reed, C. E. B., accident to, xii. 109
Regelation, ii. 307
Regizi Furke, vii. 442
Reichenau, Louis Philippe at, P. i. 394
Reichenstein, accident on, xii. 408
Reindeer, iv. 24; vii. 173
Reinhold, H., accident to, xiv. 138
Rendena, Val, v. 249
— — churches of, vii. 447
— — inns in, viii. 168
Renfen Glacier, xv. 369
Renferjoch, iv. 255, 336
Replat, Tête du, ascended, vii. 146, 151

Digitized by Google

Reposoir, Chartreuse du, xv. 331
— Pointe Perçee du, v. 292
— — — ascended, xii. 137
— — — from Cluses, xv. 331
Retyezat, iii. 26
Retzi Rothhorn ascended, ix. 494
Reviews:
Abbate, E., Guida al Gran Sasso d'Italia, xiv. 269
Abich, H., Die Gletscher im Kaukasus, ix. 182
Adamello, a new map of, vii. 277
Album d'un Alpiniste, x. 174
Albums, x. 170
Alpine Club, map of Switzerland, vii. 218
— — (Austrian) Zur Errinnerung an die vor 25 Jahren erfolgte Gründung des Oest. Alpenvereins, xiii. 482
— — (French) Annuaire, vii. 342; ix. 442; x. 168, 366; xi. 187, 422; xii. 186, 482; xiii. 195, 491; xiv. 269; xv. 81, 386
— — — section Lyonnaise, Bulletin, x. 414; xii. 191; xiii. 199; xiv. 271; xv. 452
— — — Sous-section de Gap, x. 170
— — (German and Austrian) Kalender, xv. 456
— — — Mittheilungen, x. 415; xv. 160, 449
— — — Zeitschrift, viii. 463; ix. 180, 444; x. 415; xi. 232, 421; xii. 183, 525; xiii. 272, 564; xiv. 331; xv. 158, 382
— — (Italian) Bollettino, x. 173; xi. 425; xii. 193, 484; xiii. 201, 489; xiv. 266; xv. 86, 380
— — — Cronaca, xiv. 174
— — — Sezione Ligure, Ricordo, xi. 432
— — — Sezione Lucana, Annuario, x. 408
— — — Sezione Vicentina, Bolletino, x. 174
— — (Swiss) Die ersten 25 Jahre des S.A.C., xv. 391
— — — Echo des Alpes, vii. 343; x. 285; xiii. 487
— — — Jahrbuch, iv. 147, 203; vi. 442; vii. 343; viii. 54, 174, 464; ix. 178, 443; x. 46, 283; xi. 183, 418; xii. 179, 479; xiii. 188, (Index) 194, 484; xiv. 257 xv. 87, 373
Andreazzi, Dr., Les Eaux Thermales de Acqua Rossa, xii. 284
Anleitung zu wissenschaftlichen Beobachtungen auf Alpenreisen, xi. 233
Annuaire de la Suisse Pittoresque, xv. 95
Arve, d', Les Fastes du Mont Blanc, viii. 228
Associacio d'Excursiones Catalana, Bulletí, xi. 55; xv. 391
Austin, A., Prince Lucifer, xiii. 488
Bädeker, K., Guide au Midi de la France, xii. 281; xiii. 207
— Southern France, xv. 455
— Süd-Baiern, Tirol, &c., xi. 190; xiii. 130; xiv. 175; xv. 230
Baillie-Grohman, W. A., Peasant life in Tyrol, ix. 177
— Tyrol and the Tyrolese, vii. 457
Ball, J., Alpine Guide, iv. 282, 380; vi. 441
Balli, F., La Valle Maggia, xii. 62
— Valle Bavona, xii. 487
Baretti, M., Aperçu géologique sur la chaîne du Mont Blanc, x. 407
— Il Ghiacciaio del Miage, x. 172
— Il Lago del Rutor, x. 173
— Relazione sulle Condizione Geologiche della Valle della Dora, x. 406
— Studi Geologici sulle Alpi Graie Settentrionali, x. 172
— Studi Geologici sul Gruppo del Gran Paradiso, ix. 51
Barnard, G., Drawing from Nature, ii. 263
Baumgartner, H., Die Gefahren des Bergsteigens, xiii. 51
Bazzetta, G. G., and Brusoni, E., Guida dell'Ossola, xiv. 338; xv. 93
Beni, C., Guida illustrata del Casentino, x. 407
Bérard, E., Antiquités Romaines dans la Vallée d'Aoste, xi. 53
Berlepsch, Switzerland illustrated, ix. 447

Digitized by Google

Reviews:
Berlioux, E., Lecture de la Carte de France, x. 167
Berndt, G., Das Val. d'Anniviers, xi. 234
— Der Föhn, xiii. 274
Bertini, E., Le dimore estive del Appennino Toscano, xii. 62
— Guida della Val di Bisenzio, x. 407
Billwiller, R., Die meteorologische Station auf dem Säntis, xiv. 341
Blackburn, H., Travelling in Spain in the Present Day, ii. 368
Blackie, Switzerland, its Scenery and People, x. 175
Blank, H., Führer durch Saalfelden im Pinzgau, xv. 230
Blaserna, P., Sulla Temperatura corrispondente al periodo glaciali, xii. 134
Bletzacher, J., Lieder Buch des D. and O. Alpen Vereins, xiii. 341
Boddam-Whetham, J. W., Roraima and British Guiana, ix. 501
Bonnefoy, J. A., Le Prieuré de Chamonix, x. 167
Bonney, T. G., Outline Sketches in the High Alps of Dauphiné, iii. 205
— The Alpine Regions of Switzerland, iv. 168
Bordier, Voyage aux Glacières, ix. 327
Bossoli, F. E., Panorama from Monte Sante Salvatore, vii. 54
— Panorama from the Duomo at Milan, x. 417
Botanique pratique, xii. 273
Brentari, O., Guida del Trentino, xv. 504
Browne, G. F., Ice Caves of France and Switzerland, ii. 215
Brügger, C. G., Beitrage zur Natur-Chronik der Schweiz, xiv. 265
Buchheister, J., Ueber das Bergsteigen, xv. 94
Burnaby, Mrs., High Alps in Winter, xi. 306
Burnat, E., and Gremli, A., Catalogue raisonné des Hieracium des Alpes Maritimes, xii. 273

Reviews:
Burnat, E., and Gremli, A., Les Roses des Alpes Maritimes, xii. 273
Burton, R. F., and Drake, C. V. T., Unexplored Syria, vi. 205
Busk, Miss R. H., The Valleys of Tirol, vii. 274
Butler, S., Alps and Sanctuaries of Piedmont, x. 409
Carega di Meurice, Marchese, Rassegna del Alpinismo, ix. 512
Casentino, Ricordo, xi. 432
Caucasian literature, ix. 182
Caviezel, H., Guide-book to the Engadine, viii. 287
Caviezel, M., Ober Engadin, xiii. 210
Ceresole, A., Légendes des Alpes Vaudoises, xii. 355
Chapin, F. H., Mountaineering in Colorado, xv. 163
Christ, H., La flore de la Suisse et ses origines, xii. 273
Civiale, A., Les Alpes au point de vue de la Géographie, &c., xi. 52
Claparède, A. de, Champéry, xiii. 209
Coaz, J., Die Lauinen der Schweizer-Alpen, x. 234
Conway, W. M., Climber's Guide to the Central Pennines, xv. 230
— Climber's Guide to the Eastern Pennines, xv. 503
— The Zermatt Pocket-book, x. 176
Coolidge, W. A. B., Duhamel, H., and Perrin, F., Guide du Haut Dauphiné, xii. 524; xiii. 277; xv. 230
Corona, G., Aria di Monti, ix. 445
— La Vallée d'Aoste, x. 287
— Mont Blanc or Simplon, x. 167
Correvon, H., Les Plantes des Alpes, xii. 273
Cumming, L., Glacial Moraines, xv. 392
Cunningham, C. D., and Abney, W. de. W., Pioneers of the Alps, xiii. 424
Cunynghame, Sir A., Travels in the Eastern Caucasus, vi. 158
Dalla Torre, K. W. von, Atlas der Alpenflora, xii. 273
Daudet, A., Tartarin sur les Alpes, xii. 476

Digitized by Google

Reviews:
Delmard, S. D., Village Life in Switzerland, ii. 41
Dent, C. T., Above the Snow Line, xii. 129
Die kartographie der Schweiz, xi. 430
Diener, C., Der Gebirgsbau der West Alpen, xv. 561
Digny, Count C., Mont Blanc, ix. 446
Dixon, W. H., The Switzers, v 384
Doncourt, A. S. de, Le Mont Blanc et ses explorations, xiii. 430
Dufour, T., William Winham et Pierre Martel, x. 166
Duhamel, H., Les Chalets dans les Alpes Dauphinoises, xiii. 276
Durier, C., Le Mont Blanc, viii. 457; x. 165
Eckenstein, O., and Lorria, A., The Alpine Portfolio, xiv. 521
Eckerth, W., Die Gebirgsgruppe des Monte Cristallo, xiii. 348
Edwards, A. B., Untrodden Peaks and Unfrequented Valleys, vi. 317
Egli, J. J., Der Schweiz, xiii. 349
Ellis, R., Hannibal's Passage of the Alps, iii. 193
Europäische Wanderbilder, xv. 94
F. G. and S. C., Rifugi e Guide nelle Montagne Italiane, xiii. 276
Falconnet, J., Une Ascenscion au Mont Blanc, xiii. 570
Favre, A., Recherches Geologiques, iv. 107
Favre, C., Etudes sur l'histoire des Passages Italo Suisse du Haut Valais, xi. 432
Fellenberg, E. von, Berner Alpen, xiii. 194
Fiorio, C., and Ratti, C., I Pericolo dell' Alpinismo, xv. 164
Fischer, A., Zwei Kaukasus Expeditionen, xv. 570
Fischer, L., Flora von Bern, xiv. 71
Forel, Archives des Sciences Physiques, x. 416
Freshfield, D. W., Italian Alps, vii. 459
— and Wharton, W. J. L., Hints to Travellers, xiv. 523
Garcin, J., Album de Queyras, x. 170

Reviews:
Gauthier, T., Les Vacances du Lundi, x. 286
George, H. B., The Oberland and its Glaciers, ii. 416
Geyer, G., Führer durch das Dachsteingebirge, xiii. 205
Gilbert, J., Landscape in Art before Claude and Salvator, xii. 343
— and Churchill, G. C., the Dolomite Mountains, i. 370
Gordon-Cumming, C. F., From the Hebrides to the Himalayas, vii. 452
Gorret, A., Victor-Emmanuel sur les Alpes, ix. 54
Gorret and Bich, Guide de la Vallée d'Aoste, viii. 286
Grand, A., Album Pittoresque des Alpes Briançonnaises, x. 170
Green, W. S., High Alps of New Zealand, xi. 428
Gremli, A., The Flora of Switzerland, xv. 157
Gröger, G., and Rabl, J., Entwickelung der Hochtouristik in den Oesterreichischen Alpen, xv. 387
Grohmann, P., Wanderungen in den Dolomiten, viii. 459
Grove, F. C., The Frosty Caucasus, vii. 405
Grube, A. W., Alpenwanderungen, xiii. 283
Güssfeldt, P., Bericht über einer Reise in den centralen Chileno-Argentinischen Andes, xiii. 558
— In den Hochalpen, xiii. 49
— Reise in den Andes von Chile und Argentinien, xiii. 558
Guida Storico-Alpino di Bassano, xiii. 205
Guide e Portatori, xv. 95
Guide-books, ix. 311
Guides Joanne, xii. 205
Guigues, E., Séchot et Poulard, xiii. 208
Guillemin, P., Les Coutumes d'Arvieux, x. 168
Haardt, V. von, Die Entheilung der Alpen, xi. 234
— Uebersichts-Karte der Alpenländer, xv. 80
Hamerton, P. G., Landscape, xii. 343

Digitized by Google

Reviews:
Hardmeyer, J., Die Brünigbahn, xiv. 265
— Locarno et ses vallées, xii. 488
Hare, A., Cities of Northern and Central Italy, vii. 466
Harpprecht, T., Bergfahrten, xii. 528
Hess, H., Illustrirter Führer durch die Hohen Tauern, xiii. 131
— Illustrirter Führer durch die Zillerthaler Alpen, xiii. 429
— Oetzthäler und Stubaier Alpen, xv. 165
Hug, L., and Stead, R., The Story of the Nations—Switzerland, xv. 448
Huxley, T. H., Physiography, ix. 54
Indian Alps, vii. 452
Isaia, C., Il Club Alpino in Torino, 1863 to 1881, xi. 125
Javelle, E., Souvenirs d'un Alpiniste, xii. 530
Joanne, A., Collection des Géographies Départementales, x. 167
Joanne, P., Dauphiné et Savoie, xiii. 206
Kaltbrunner, D., Aide-mémoire du Voyageur, x. 285
— Manuel du Voyageur, x. 285
— and Kolbrunner, E., Der Beobachter, xiv. 413
Keller, F., The Lake Dwellings of Switzerland, iii. 179
Keller, F. C., Die Gemse, xiii. 344
Kemble, F. A., The Adventures of Mr. Timothy Homespun in Switzerland, xiv. 524
King, C., Mountaineering in the Sierra Nevada, N. America, v. 389
Ladame, J., Chemin de Fer de Calais à Milan, xv. 80
Landolt, E., Die Bäche, Schneelawinen und Steinschläge, xiii. 350
Lansdell, H., Russian Central Asia, xiii. 46
Law, W. J., The Alps of Hannibal, iii. 193
Lawson, A. J., Wanderings in the Interior of New Guinea, vii. 269

Reviews:
Leck, H., Deutsche Sprachinseln in Wälschtirol, xiii. 342
Le Mesurier, W. A., An Impromptu Ascent of Mont Blanc, xi. 191
Lendenfeld, R. von, Forschungsreise in den Australischen Alpen, xiii. 493
Leuzinger, R., Relief Karte von Tirol, xv. 230
— Relief Karte von der Schweiz, xv. 392
Levasseur, E., Les Alpes et les Grandes Ascensions, xiv. 409
Liebeskind, A. G., A Pocket-book for Mountaineers, vi. 54, 320
Lurani, F., Le Montagne di Val Masino, xi. 236
Lyell, Sir C., The Geological Evidences of the Antiquity of Man, i. 89
Lytton, Earl of, Glenaveril, xii. 353
Main, Mrs., High Life and Towers of Silence, xiii. 186
Marinelli, G., Materiali per l'Altimetria Italiana, ix. 447
Maritime Alps, the, and their Seaboard, xii. 197
Martelli, A. E., and Vaccarone, L., Guida delle Alpi Occidentali, x. 170; xiv. 335, 525
Martin, D., Excursions Géologiques, xiv. 339
Mathieu, J., Panorama du Massif de l'Oisans, xiii. 347
Mellé, I. O., La Vallée d'Aoste, x. 288
Meurer, J., Alpinen Sport, xi. 54
— Auf den Oetzthaler Fernern, xi. 307
— Bekleidung des Hochtouristen, x. 413
— Campiglio, Arco, &c., xv. 165
— Das Finsteraarhorn, x. 413
— Der Mont Blanc, x. 167
— Führer durch die Dolomiten, xii. 285; xv. 230
— Führer durch Salzburg, xv. 165
— Illustrirte Führer durch die Alpen von Salzburg, &c., xiii. 429
— Illustrirte Führer durch Oesterreich-Ungarn, xiv. 175

Digitized by Google

Reviews:
Meurer, J., Illustrirte Führer durch Ost-Tirol, &c., xiii. 130
-- Illustrirte Führer durch West-Tirol, xii. 486
— Illustrirte Special-Führer durch die Ortler-Alpen, xii. 61
Meyer, H., Across East African Glaciers, xv. 389
Michelet, J., The Mountain, v. 386
Minor Alpine Periodicals, xii. 199
Molon, F., Sui Popoli dei Setti Comuni, x. 417
Mounsey, A. H., A Journey through the Caucasus, vi. 158
Muddock, J. E., The J.E.M. Guide for Switzerland, xi. 48
Murray, J., Handbook for Travellers in Switzerland, xv. 569
— Knapsack Guide to Switzerland, ii. 89
— Switzerland, Savoy, and Piedmont, xiii. 131
Noë, F., Geologische Uebersichtscharte der Alpen, xv. 162
Norske Turistforenings Aarbog 1890, xv. 506
Oberosler, J., Führer durch Mittel-Italien, xv. 230
O'Shea, H., A Guide to Spain, ii. 265
Osona, A., Guia del Alt Plá de Barcelona, xiv. 70
— Guia Itineraria de las Serras de la Costa de Llevant, xiv. 70
— Guia Itineraria dal Vallés Superior, xiv. 70
Panorama of the Alps from Turin, vi. 53
Partsch, J., Die Gletscher der Vorzeit in den Karpathen, xi. 371
Paterson, Guide to Switzerland, xiii. 52
Payot, V., Description Pétrographique des Roches de la Chaîne du Mont Blanc, xii. 531
— Oscillations des Quatre Grands Glaciers de la Vallée de Chamonix, ix. 442; xii. 530
Penck, A., Die Vergletscherung der Deutschen Alpen, xi. 190; xiii. 206
Pernisch, J., Das Kurhaus Tarasp und seine Umgebungen, xiv. 265
Perrin, A., Histoire de la Vallée

Reviews:
et du Prieuré de Chamonix, xiii. 279
Perrin, F., A Travers les Alpes du Dauphiné, xii. 192
Perrin, M. A., Le Prieuré de Chamonix, xi. 484
Petzendorfer, L., Humoristische Naturgeschichte des Alpinen Menschen, xiv. 172
Peyer, G., Geschichte des Reisens in der Schweitz, xii. 350
Phillipps-Wolley, C., Savage Suanetia, xi. 429
Plunket, Hon. F., Here and There in the Alps, vii. 272
Pocket Guide-books, ix. 181
Prior, H., Ascents and Passes in the Lake Districts of England, ii. 261
Rabl, J., Illustrirte Führer durch Kärnten, xii. 62
— Illustrirte Glockner-Führer, x. 413
Radde, G., Der Bingöl Dagh, ix. 182
Rambert, E., Ascensions et Flâneries, xiv. 340
— Etudes Historiques, xv. 93
Ratti, C., Da Torino a Lanzo, xi. 237
— and Casanova, F., Guida della Valle d'Aoste, xiii. 490; xv. 93
Rava, C., Album photographique de la vallée de Barcelonnette, x. 170
Ravenstein, L., Karte der West Tiroler und Engadiner Alpen, x. 175
Richter, E., Die Gletscher der Ostalpen, xiv. 520
Richter, J. P., The Literary Works of Leonardo da Vinci, xii. 201
Richthofen, F. von, Führer für Forschungsreisende, xiii. 281
Rochas d'Aiglun, A. de, Les Vallées Vaudoises, xi. 125
Ronzon, A., Il Cadore, viii. 469
Rosenthal, J., Schutzhütten und Unterkunfthaüser in den Alpen, xiii. 276; xiv. 173
Roth, Dr., and Fellenberg, M. von, The Doldenhorn and Weisse Frau, i. 207
Russell, Comte H., Les Grandes

Digitized by Google

Reviews:
Ascensions des Pyrénées, iv. 64
Russell, Comte H., Souvenirs d'un Montagnard, xiv. 255
St. Moritz Post and Davos News, xiv. 175
St. Robert, P. di, Perchè i ghiacciaj si vadano retirando, xii. 134
Saussure, M. H. B. de, Voyages dans les Alpes, x. 167
Schatzmann, R., Alpenwirthschaftliche Volkschriften, xiii. 349
Scheuchzer, J. J., Itinera Alpina, iii. 200
Schindler, A., Die Wildbach und Fluss Verbauung nach der Gesetzen der Natur, xiv. 333
Schlagintweit, H. von, Reisen in Indien und Hoch-Asien, vi. 43
Schmidt, C., Zur Geologie der Schweizer Alpen, xv. 94
Schmidt, H., and Stieler, K., The Bavarian Mountains and the Salzkammergut, vii. 457
Schröter, L., Taschenflora des Alpen-Wanderers, xiv. 335
Schütz-Wilson, H., Alpine Ascents and Adventures, viii. 466
— Philip Mannington, vii. 271
Schwarz, B., Die Erschliessung der Gebirge, xiii. 41
Schwarz, T., Ueber Fels und Firn, xiii. 44
Schweizerische Naturforschung Gesellschaft, Beiträge zur geologischen Karte der Schweiz, v. 191
Scritti Varii, di Argomento Attenente all' Alpinismo, x. 174, 407; xi. 189
Seboth, J., Alpine Plants, ix. 441
Secco, A., Guido Geologico-Alpina di Bassano, x. 417
Sella, V., and Vallino, D., Monte Rosa e Gressonay, xv. 453
Seton-Karr, H. W., Shores and Alps of Alaska, xiii. 427
Shairp, J. C., Tait, P. G., and Adams-Reilly, A., Life and Letters of J. D. Forbes, vi. 244
Shepherd, C. W., The North-West Peninsula of Iceland, iii. 197

Reviews:
Simony, F., Das Dachsteingebiet, xiv. 412
Smith, H., Tent Life with English Gipsies in Norway, vii. 53
Societa Alpina Friulana, Cronaca, xi. 53
Società degli Alpinisti Tridentini, Annuario, x. 174, 410; xi. 235, 483; xii. 197; xiii. 431
Société des Touristes du Dauphiné, Annuaire, x. 170, 368; xi. 188, 424; xii. 189, 483; xiii. 200, 493; xiv. 272; xv. 84, 453
Soperga, xii. 357
Stettler, K., Das Frutigland, xiv. 341
Steub, L., Zur Namens und Landeskunde der Deutschen Alpen, xiii. 287
Stoppani, A., The Bergamesque Valleys, viii. 470
Strasser, G, Das Fröhliche Murmelthier, xiii. 488
— Der Gletschermann, xiv. 264
Strickland, F. de B., The Engadine, xv. 504
Studer, G., Ueber Eis und Schnee, xi. 305
Studer, J., Walliser und Walser, xiii. 342
Svenska Turistföreningens Aarsskrift (1891), xv. 507
Talbert, Les Alpes, Études et Souvenirs, x. 175
Tillier, J. B., Historique de la Vallée d'Aoste, x. 408
Tissot, V., La Suisse Inconnue, xiv. 411
Touristen Karten, xv. 391
Tozer, H. F., Turkish Armenia and Eastern Asia Minor, x. 235
Trautwein, T., Das Kaisergebirge, xv. 504
— Register zu den Publikationen des D. and O. Alpenvereins, xiii. 340
— Südbaiern, Tirol, &c., vii. 344; xv. 165
— Wegweiser durch Südbaiern, vi. 153
Trentino Annuario, ix. 445
Tschudi, I. von, Der Turist in der Schweiz, vi. 153; vii. 344; xii. 62; xiii. 132, 341; xiv. 70
Türler, E. A., Das Malerische

Digitized by Google

Reviews:
und romantische Emmenthal, xiv. 340
Türler, G. A., Die Berge am Vierwaldstättersee, xiv. 69
Turner, G., Picturesque Wales, xv. 233
Tyndall, J., Hours of Exercise in the Alps, v. 285
Umlauft, F., Die Alpen, xiii. 281 translated, xiv. 408
Vaccarone, L., Le Pertuis du Viso, x. 411
— Statistica della prime Ascensioni, xv. 230
Vignet, L., Les Etapes d'une Berline, x. 415
Viollet-le-Duc, E., Mont Blanc, viii. 403
Vormann, W. H., Aus den Fremdenbüchern von Rigi Kulm, xi. 431
Waltenberger, A., Die Dolomit Alpen, xiii. 569
Walton, E., Peaks in Pen and Pencil, vi. 319
— and Bonney, T. G., The Peaks and Valleys of the Alps, iii. 205
Watts, W. L., Across the Vatna Jökull, viii. 168
Weilenmann, J. J., Aus der Firnenwelt, vi. 319; viii. 469
Weissen, A., Guide du Touriste en Savoie, xiv. 527
Wenger, J., Unglücks-Chronik, xiv. 414
Werner, W., Album for Alpine Plants, xii. 206
White, W., Holidays in Tyrol, viii. 116
Whitney, Professor, The Yosemite Guide-book, vi. 52
Whymper, E., The Ascent of the Matterhorn, ix. 440
— Scrambles amongst the Alps, v. 234
Whymper, F., Travel and Adventure in the Territory of Alaska, iv. 223
Widmann, J. V., Spaziergänge in den Alpen, xiii. 48
Wilson, A., The Abode of Snow, vii. 338
Winterbilde aus der Schweiz, xv. 157

Reviews:
Wolf, F. O., Die Katastrophe am Matterhorn, 1886, xiii. 166
— Wallis and Chamonix, xiii. 277; xiv. 265
Zauffak, J., Signaturen in-und ausländischer Kartenwerken, xv. 85
Zsigmondy, E., Die Gefahren der Alpen, xii. 472; translated, 522
— Im Hochgebirge, xv. 226
Rey, M., accident to, xii. 408
Reykjanes, Cape, i. 248
Reykjavik, i. 247
Reynolds, J. J., death of, xiv. 141
Rheinwald Glacier, iii. 173
Rheinwaldhorn, *see* Valrhein, Piz
Rhèmes Glaciers, xiv. 492
— Val de, P. iii. 397
Rhone Glacier, P. iii. 96
— — ancient, the, xii. 157
— — measurement of, xii. 181, 468, 481
— — observations on, xiii. 485
— — retreat of, viii. 277; xiii. 193
— — survey of, ix. 431, 500
Ribon, Pic du, ascended, xiv. 494
Ried, inn at, iv. 239; xi. 241
— Pass, ix. 28, 111; x. 335
— — variation of, xiii. 125
Riedmatten, Col de, iv. 204
Riemenstalden Thal, vii. 165
Rienzjoch, vii. 21
Rieti, viii. 358
Rieublanc, Col de, viii. 66, 74
Rif, Pic du, ascended, viii. 343
Riffelberg, accident on, xii. 408
— botany, v. 109
Riffelhorn, accident on, ii. 153
— discovery on, vi. 437
— from the Gorner Glacier, v. 306, 376
— new route up, xi. 118
Rifugio, Cima del, ascended, xiv. 161
Rigi in 1852, P. i. 256
— panorama of, ix. 447
Rimac, waters of, viii. 432
Rimbianco, Forcella di, vii. 19
Rimplas, ix. 395
Rinderhorn by E. arête, ix. 493
Rinella, Bocca, xi. 458
Ringelspitze from the Kalfeuserthal, xv. 87
Rio Martino cavern, x. 469
Riobamba, x. 427

Digitized by Google

Rioburent, *see* Rubren, Grand
Rion valley, xiv. 21
Rioufroid, Col de, xiv. 218
Riseten Pass, P. i. 375
Ritord, le, ascended, xv. 543
Ritorto, Passo di, vi. 150
Ritter Pass, i. 199; vii. 131; xi. 397; xv. 267, 312
Ritzlihorn ascended, i. 379; iv. 208
Ritzli Pass, xv. 547
Riva, i. 442
— Secca, Val, Forcella del, vii. 258
Rjukanfos, iv. 38
Roads, Roman, vi. 234
Robinson, H. H., pictures by, xv. 167
Roc Noir, Grand, ascended, xiv. 487
Rochail, Col de, viii. 330
— Rocher de, ascended, viii. 330
Rochebrune ascended, x. 353
Rochefort, Col de, viii. 412
— Dôme de, ascended, x. 405
— — from the Italian side, xiv. 496
Roches, Col des, xiii. 118
— Moutonnées, P. i. 410; vii. 401
Rocheure, Col de la, ix. 99
Rocky Mountains, ancient glaciers, ix. 246
— — Club, vii. 402; viii. 54
Roda, Val di, Campanili di, ascended, xv. 368
Rösheim, v. 154
Rofelpass, xi. 202
Rognons, Col de, x. 88, 145
Rognosa, Colle della, xii. 409
Roise des Banques, xii. 86
Roisebanque, Cime de, xi. 360
Roja, gorges of the, xi. 228
— inn at, ix. 500
Rol, Punta, ascended, xi. 358; xii. 84
Roland, Brêche de, hut, xii. 22
Roman roads, vi. 434
Romanche river, P. iii. 200
Rommehest ascended, v. 54
Romsdal, iii. 84; iv. 27
Romsdalhorn, iv. 27
— ascended, xi. 144; xii. 267
Ronce, Pointe de, ascended, xii. 116
Ronco, P. iii. 274
Ronda, Serrania, vi. 58
Rondinaja, vii. 388
Ronung Pass, iii. 62
Roopung Pass, iv. 84
Ropes, first recorded use of, iv. 172
— knots, ii. 95
Ropes, machine made, ix. 56
— metal eyes, ii. 224
— report of the Alpine Club Committee, i. 321
— test for, xii. 424
— use of, P. i. 492; i. 21; ix. 115; xiii. 397
Roraima, xii. 127
— ascended, xii. 264
Rosa Blanche, Pointe de, ascended, iv. 204; xi. 238
— dei Banchi, Monte, ascended, xi. 360
— Monte, accident on, in 1865, ii. 154
— — accident on, in 1881, x. 364
— — accident on, in 1885, xii. 408
— — ascended, ix. 108; xv. 223
— — attempt on, in the eighteenth century, ix. 496
— — derivation of, xii. 202, 468
— — earliest attempts on, xii. 468
— — early attempts on, xv. 493
— — first ascents, viii. (app.) 29
— — from Gressonay, vii. 154, 218
— — from the Lysjoch, vii. 107
— — from Macugnaga, vi. 91, 232; without guides, xii. 128
— — from the S., xii. 65; xiii. 203, 263
— — from the Zumstein Sattel, viii. 338, 400
— — in winter, xi. 243, 479; xiv. 325
— — new route, iv. 157
— — Ost Spitze, vi. 244
— — rolled out, vii. 337
— — seen from the Gemmi, P. i. 335
— — seen from the Simplon road, i. 207
— — tour of, i. 377
— — without guides, viii. 383
Rose glow, explanation of, P. i. 172, 193
Roseg Glacier, P. ii. 135
— Piz, ascended, i. 255; ii. 135; iii. 19; ix. 113; xv. 314
— — attempted, i. 135
— — by N.W. arête, xiv. 505
— — first ascent, v. 373; ix. 383
— — from the N., xv. 467
— — from the Tschierva Glacier, viii. 109, 200
— — in winter, xi. 411

Digitized by Google

Roseg, Piz, third peak of, ix. 168
— — without guides, xi. 182, 246
— Thal, P. ii. 133
— Thor, *see* Caputschin Pass
Rosenegg Pass, xii. 480
Rosengarten, vii. 109, 345
— passes of, vii. 364; x. 72
Rosenheim, meeting at, xiii. 183
Rosenhorn ascended, i. 197; x. 493
Rosenlaui Glacier, retreat of, viii. 277
— to the Grimsel, ii. 267
Rosetta, Cima di, ascended, xiv. 295
— Passo della, ii. 138
Rosoire, Col de, P. iii. 379
Rossa, Cima, ascended, xiii. 484
— Croce, ascended, xi. 353
— Croda, ascended, xiii. 263
— — without guides, xii. 128
— Forca, x. 70
— Viva, ascended, xi. 23
— — W. peak, x. 357
Rossboden Pass, vii. 132, 215; xi. 395
Rossbodenhorn ascended, viii. 148; x. 405; xiii. 415
— first ascent, ix. 29
— from Simplon, viii. 106
— nomenclature, xv. 154
— routes up, x. 489
Rosse, la, ascended, i. 444
Rosses, Dent des, ascended, xv. 546
Rosset, Col, ii. 32
Rosso, Capo, x. 324
— Cima di, ascended, iv. 51
— di Scerscen, Monte, ascended, ix. 179, 439; xii. 177; xiv. 159; xv. 314, 464
— — — from the Roseg Fuorcla, xiii. 417
— — — from the Scerscen Glacier, xiii. 127, 301
— di Tschierva, Monte, ascended, viii. 199
Rossruckspitze from the N., x. 498
Rosszähne, vii. 350
Rotang Pass, iii. 129
Roth, F., accident to, x. 46, 109
Rothe, H., accident to, xv. 539
Rothelsch Glacier, vi. 39
Rother-kopf attempted, vii. 234
Rothewand Spitz, vii. 362
Rothgrätli, ii. 365; xiv. 302
Rothgrat Pass, x. 96
Rothhorn ascended, i. 433; ii. 67; xv. 194
— (Ferden) ascended, ix. 493
Rothhorn (Finsteraar) ascended, xiii. 188
— (Retzi) ascended, ix. 494
— (Siedel), xiv. 154
— attempted, i. 197
— by W. face, ix. 108
— crossed, vi. 295, 365
— from Zermatt, vi. 268; vii. 395
— to the Moming Pass, vi. 295
— without guides, x. 419; xii. 128
Rothhornjoch, vi. 436
Rothhornsattel, viii. 262
Rothkumme Glacier Pass, ii. 270
Rothmoosjoch, xi. 123
Rothsattel, i. 369
Roththalsattel, *see* Jungfrau
Rothwand, *see* Rossa, Croda
Rotondo, Monte, i. 30
— — ascended, iv. 296; x. 203
— — attempted in winter, xi. 412
— Passo, xiv. 155
— Pizzo, ascended, xiv. 155
Rotta, la, Pass, vii. 246
Rouchon, Pic, ascended, x. 353
Rouge, Mont, Col du, P. i. 104
Rouges, Aiguilles, ascended, ii. 62
— Col des, xiii. 400
— d'Arolla, Aiguilles, ascended, xiv. 84
— — — by E. face, xi. 174
— — — south point, xiii. 411
— du Dolent, Aiguilles, ascended, xiv. 151, 406
Rouies, Col des, vii. 104
— Sommet des, ascended, vi. 289, 290; vii. 87, 136; xiv. 376
— — from the N.W., xiv. 146
Roujet, Tête du, ascended, xi. 347; xii. 395, 424; xiv. 378
Rouméiou, Col de la, viii. 330
Rousse, Aiguille, ascended, x. 346; xiii. 406
— — by N. arête, xiv. 482
— Grande, ascended, vii. 211
— — Col de, vii. 211, 317
Rousses, Col des, ix. 365
— Grandes, ascended, i. 137, 294; vii. 144, 151; viii. 74
— — Brêche, des, xiv. 145
— — Col des, viii. 76
— — N. and S. peaks, xiii. 402
— — S. peak, viii. 330; xiv. 145
Rovina, Cima della, ascended, ix. 391
— — height of, x. 46
Royds, A.M., disappearance of, xiii. 114

Digitized by Google

Rubesoier, E., accident to, xiii. 54, 110
Rubi, P., accident to, x. 46, 109
— obituary notice, x. 78
Rubi-Roth fund, x. 110, 366
Rubren, Grand, ascended, ix. 348; x. 130
Ruchen Pass, iv. 217; vi. 328
Ruchi, Gross, ascended, i. 379; vi. 327
Rudd, G. A., accident to, xiv. 141
Rudhard, H., death of, xiv. 141
Rütte, Herr von, accident to, xi. 99
Ruine, Bergerie de la, P. iii. 137
— Grande, ascended, vi. 291; vii. 82, 140; x. 90; xiv. 375
— — Col de la, vii. 147, 151; x. 267
— — group, topography, ix. 293
— — N. peak, xiii. 404
— — without guides, xii. 424
Ruinette ascended, ii. 133; iv. 203
Ruitor ascended, P. iii. 387; vii. 400; xiv. 495
— Col du, i. 429
Ruminahui, ix. 45
Ruskin, J., pictures by, xv. 393
Russein Lücke, ii. 363
— Piz, *see* Tödi
Russian furnace, P. iii. 70; ii. 10
Ruverde, Forcella di, vii. 250
Ruwenzori, xiv. 324
Ryle, A. J., pictures by, xv. 509
Rymfischhorn, from the Adler Pass, viii. 107

Saas, ancient passes to, vi. 38
— inn at, x. 487; xv. 79
— Pizzo del, ascended, xiv. 502
— Saracens at, P. ii. 184; ix. 202, 208, 278, 282
Saas-grat, vi. 91
Sabbione, Colle del, ix. 346
Sabione, Dos di, viii. 164
Sacchi, Passo dei, xiii. 417, 496
Sache, Col de la, P. iii. 358
— Dôme de la, ascended, xii. 119
Sachs, Dr., accident to, ix. 114
Sacripante hut, x. 488
Sacro, Monte, of Varallo, xv. 446
Saddle Peak ascended, xiv. 91, 188
Sadon, xii. 92, 494
Säntis, accident on, xi. 345; xiii. 398; xiv. 476
Sagen ascended, xiv. 508
Sagnette, Col delle, P. iii. 156, 167; i. 29
Sagra, Sierra, vi. 58
Sagro, Monte, vii. 376; xi. 329
St. Anna Lake, iii. 36
St. Bernard, Great, accident on, xi. 99
— — in 1800, vii. 434
— — mediæval passage, xiii. 271
— Little, vii. 400
St. Catherine, Mount, i. 205
St. Ceciliaskrone ascended, iv. 30
St. Christophe, P. iii. 186, 202, 221; xiii. 538
— Brèche de, vii. 151; x. 265
— char road to, xi. 241
— Val de, P. iii. 200
— — heights of points in, P. iii. 214
St. Elias, Mount, viii. 385; xiv. 345
— — attempted, xiii. 89, 177; xiv. 164
— — height of, xv. 371
St. Esprit, Aiguille du, ascended, x. 367
St. Etienne, inn at, ix. 500
St. Foi, P. iii. 350, 390; vii. 400
— inn at, xiv. 519
— landslip, viii. 415, 450; xii. 10
St. Gertrud, inn at, v. 284
St. Gervais, inn at, i. 96
— walks from, v. 290
St. Grat, Col de, xiv. 495
St. Helen's, Mount, viii. 235, 390
St. Jean d'Arves, inn at, x. 488
St. Luc, inn at, i. 96
St. Majolus, ix. 271
St. Martin, xiii. 76
St. Maurice, Bourg, P. iii. 349
St. Maxime de Beaufort, xii. 142
St. Michael, Piz, ascended, iv. 51; v. 206
St. Moritz, flora of, v. 273
— in winter, x. 31
St. Nicholas, i. 93
St. Paul sur Ubaye, adventure at, x. 133
— — inn at, ix. 497
— — road to, xi. 241
St. Pierre, Grand, Tour du, ascended, iv. 58; vi. 87; viii. 102; ix. 75; xii. 511
— — — from Cogne, vi. 365
— Vallon de, i. 69
St. Rémy, Col de, ii. 419
St. Robert, Count di, obituary notice, xiv. 236, 275

Digitized by Google

St. Romao, v. 125
St. Théodule, ix. 31; xv. 207
— accident on, P. i. 190
— in 1543, xiv. 407
— in 1800, vii. 435
— in 1840, x. 44; xv. 47, 59
— in winter, xi. 260
— strange discovery on, xii. 470
— winter on, ii. 219, 272
St. Véran, x. 129, 353
— Baisse de, xi. 231
— inn at, xi. 241
Ste. Anne, Pointe de, ascended, ii. 207; ix. 348
Ste. Hélène ascended, ii. 208, 394; ix. 101; xv. 297
Ste. Lucie, Col de, x. 330
Sais, Col de, P. iii. 207
Salananchera, *see* Saluinan Chiran
Salarous, xii. 23
Salawat Pass, xv. 321
Saléna, Fenêtre de, P. i. 16; i. 268
— Glacier de, i. 280
Salenque, Pic de, i. 383
Saline ascended, ii. 353
— Forcella di, vii. 250
Salle, la, ascended, iv. 207; v. 276, 328
Salles, Pointe de, ascended, ii. 54
Salomon, Dr., accident to, ix. 114
Salude, Tête du, ascended, x. 94; xiii. 63
— — position of, x. 491
Saluinan Chiran ascended, xiv. 92, 194
— — Pass, xiv. 198, 439
Saluzzo, P. iii. 148
Sampeyre, P. iii. 149
San Angelo, Col, vii. 13
San Bernardo Mountain ascended, xv. 482
San Chiaffredo, x. 481
— inn at, vii. 218
— Pass of, x. 350, 466
San Dalmazzo di Tenda, inn at, ix. 499
San Filipe, Cerro de, vi. 59
San Giacomo d'Ayas, P. i. 189
San Giuliano, Lago di, ix. 304
San Lucan, Cadin di, vii. 19
San Lucano, Passo di, vii. 331, 462
San Martino, i. 14
— di Castrozza, xiv. 291
— — botany, xiv. 301
— — inn at, vii. 50, 462
— — names of peaks, xv. 499
San Martino Lantosca, ix. 386
— — guides, xiii. 177
— — inn at, ix. 499
— Pala di, ascended, ix. 48, 165, 307; x. 164; xiv. 297
— — attempted, v. 118; vii. 332
— — without guides, xi. 182
San Parteo, Monte, x. 319
San Pietro, Gran, Colle del, *see* Monei, Coupé de
— Monte di, x. 199
— — ascended, xi. 459
San Stefano, vii. 447, 463
San Vito, inn at, viii. 115
Sana, Pointe de la, ascended, xiii. 118
Sand Grat Pass, P. i. 378
Sandakphu, xii. 442
Sanetsch Pass, accident on, xiii. 398
Sanko valley, iv. 195
Sanmoarhütte, xii. 264; xiv. 461
Sans Nom, Pic, ascended, xv. 297, 335
Sansfleuron Glacier, *see* Zanfleuron Glacier
Santa Catarina, v. 179
Santa Croce Pass, vi. 435
Santebüchl, vii. 30
Santscharo Pass, xii. 325
Saousat, Lac de, P. iii. 105
Sapin, Col du, ii. 419; vii. 400
Sapinière Glacier, P. iii. 238
— Vallon de, i. 69
Saracens at Saas, P. ii. 184; ix. 202, 208, 278, 282
— in the Alps, P. ii. 148; ix. 208, 254; x. 269
— in Dauphiné, i. 153
— in the Valais, iv. 216
Sara-urcu ascended, x. 250
Sarca, gorge of the, v. 258
Sardinia, sport in, viii. 126
Sardona Glacier, P. i. 392
— Pass, i. 134
Sarjektjakko ascended, x. 363
Sarmiento, Mount, height of, iv. 329
Sarnico, viii. 86
Sarrable, Col de, iv. 114
Sass Maor, iv. 386
— — ascended, vii. 333; xiii. 174, 455; xiv. 299
— — without guides, xii. 128
Sassberg, P. i. 383
Sassello, Passo di, x. 57, 156
Sassi, Passo dei, x. 157

Digitized by Google

Sassière, Col de la, ii. 208, 392
— de St. Foi, P. iii. 389
— Grande, Aiguille de la, ascended, P. iii. 362; ix. 101, 483
— Lac de la, P. iii. 361, 396
— Pointe de la, *see* Fond, Pointe du
Sasso d'Italia, Gran, ascended, v. 375; vii. 336; viii. 353
— — — in winter, ix. 491
— — — map of the, xiii. 129
— di Mur ascended, x. 363
— — attempted, x. 68
— — S.W. peak, ix. 114
— — without guides, xii. 128
— di Muz, vii. 463
— Negro, Passo di, x. 155
Satchori Pass, vii. 100
Sattelhorn ascended, xii. 179
Sausgrat, *see* Kilchfluh Pass
Saussaz, Aiguille de la, ascended, x. 83
— — north peak, xi. 348
Saussure, de, vii. 201; ix. 25
— centenary, xiii. 556
— monument to, xii. 464
— portrait of, xv. 458
Sausthal, xv. 555
Saut des Français, le, ix. 389
— du Loup, ix. 147
Sauvage, Grand, Cime du, ascended, xiii. 403
— — Col du, viii. 76; xi. 107
Sauvegarde, Pic de, ascended, vii. 49
Savaranche, Val, P. iii. 324, 413; viii. 80
— — in 1843, xv. 133
— — inn at, P. iii. 291
Savien Thal, v. 202
Savine, Aiguille de, *see* Ambin, Dents d'
Savoyat, Mont, ascended, xiii. 402
Saxe, Mont, vii. 400
— — accident on, x. 365
Saxifrages, vii. 364; viii. 40
Says, Col du, ix. 362
— Pic du, ascended, ix. 355; xv. 541
— — N. summit, xiii. 404
Scafell ascended, xi. 124
— by Deep Gill, xii. 533
— new route, xiii. 93, 178
— Pike, x. 45
— — circular rainbow on, xii. 174
Scale, Lago delle, v. 184
Scale, Monte delle, v. 184
Scalella, Bocca di, x. 331
Scaletta Pass, origin of name, P. ii. 148
Scalino, Pizzo, ascended, ii. 358
Scalve, Val di, viii. 85
Scanafaghiaccia, x. 318
Scanfs, i. 318
Scerscen, Monte di, *see* Rosso di Scerscen, Monte
— Pass, P. ii. 138; vi. 301
Schalfkogel crossed, xiv. 465
Schallenjoch, i. 432
Schallhorn ascended, vi. 294
Schaubachhütte, xii. 264
Schaufel, Vorder, Spitz, ascended, ii. 141
Schebulos, xi. 473
Scheerhorn ascended, vi. 329; x. 306
Scheerjoch, i. 435; vi. 330
Scheideck, Great, in winter, xiii. 73
Schenkler, E., accident to, xi. 99
Scherboden, Piz, ascended, x. 296
Schernthaler, J., accident to, xv. 273
Scheuchzer, iii. 200
Schieck, V., murder of, xiv. 141, 327
Schienhorn, xiii. 190
— ascended, xi. 121
Schlagintweit, A., death of, xii. 32
Schlegeisen Thal, vii. 291
Schlenkerspitze ascended, xiii. 565
Schlern Spitzen ascended, xv. 79
Schlinig, innkeeper at, xiii. 289, 478
Schloss Weissenstein, viii. 227
Schlossberg ascended, vii. 267
Schlossbergjoch, vi. 82, 339
Schmadrijoch, ii. 411; iii. 89
Schmöcks, Bad, iii. 25
Schneeberg, accident on, ix. 493
Schneehaube ascended, ix. 439; xii. 177
Schober Thörl, viii. 227
Schöllhorn, C., accident to, xv. 225
Schönbuhl Glacier, vii. 428
Schönbühlhorn ascended, xii. 479
Schönleitenpass, vii. 16
Schrambachscharte, accident on, xiii. 399, 468
Schrammacherspitze, vii. 157
Schrankogel ascended, ii. 353; vii. 156
Schranspitze ascended, vii. 329

Digitized by Google

Schreckhorn, accident on, in 1869, iv. 373
— accident on, in 1886, xiii. 113, 290
— ascended, P. iii. 3; iii. 94
— attempted, P. i. 234
— avalanche on, P. i. 247
— by N.W. arête, xi. 364, 437
— by the E., xv. 370
— early attempts on, P. i. 253
— falling stones on, viii. 400
— first ascent, viii. (app.) 71
— from the Lauteraar Sattel, vi. 298; vii. 34; xiv. 156
— in winter, ix. 184, 213; xiii. 466; xiv. 248; xv. 201
— Klein, P. iii. 4
— — ascended, P. i. 249; iv. 157; xiv. 157
— ridge, viii. 52
— temperature, ix. 180
— without guides, xii. 424; xiii. 188
Schreckjoch, xiv. 504
Schreyer, A., accident to, xiii. 399, 468
Schrötterhorn ascended, vii. 329
Schrötterjoch, vii. 329
Schuler, accident to, xiii. 398
Schuls, v. 282
Schwärze, Hintere, ascended, viii. 161; xiv. 461
Schwalbenkofljoch, vii. 22
Schwarenbach in winter, v. 63
Schwartzhorn (Grisons) ascended, P. ii. 148
Schwarze Glacier, P. i. 178
— Schneide ascended, vii. 156
Schwarzenstein ascended, x. 102
Schwarzerbergerjoch, ii. 353
Schwarzhorn ascended, vi. 295; xii. 72
Schwarzkopf, viii. 175
Schwarzthor, P. i. 155; iv. 57, 69; viii. 383; xii. 121, 246
Schwarzwandspitze ascended, vii. 156
Schwarzwanter ascended, xv. 159
Schwemzer Spitze, x. 104
Sciassa ascended, ii. 415
— nomenclature, xii. 523
Scie, Aiguille de la, ascended, xiv. 497
Sciora, Pizzi di, ascended, xv. 91
Scolette, Aiguille de, ascended, xi. 111
Scopi ascended, x. 309
Scott's peak, viii. 393
Scottish Mountaineering Club, xv. 79
Séa, Col de, ii. 82; iii. 114; ix. 99, 474
Sedie Cadreghe ascended, x. 460
Seehof, accident near, xiii. 399
Seehorn, Gross, ascended, xv. 315
Seewelijoch, i. 379; vi. 322
Seewinen Pass, xi. 202
Sefton, Mount, xi. 139
Segnes Pass, P. i. 387
Segura, Sierra, vi. 58
Seguret Foran ascended, ix. 90, 225
— — Col de, viii. 343
— — — variation of, ix. 94
Seiler, A., obituary notice, xv. 491
Seisser Alp, x. 72
Selbsanft, Vorder, ascended, xi. 186
Selé, Col du, i. 69, 170, 315
— — without guides, ix. 229
— Pointe du, ascended, x. 347
Selkirk Mountains, xiv. 58, 168, 280; xv. 418
Sella, A., death of, xv. 556
Sella Pass, i. 137, 352; iii. 20; vi. 301
— Piz, ascended, i. 136
— Punta, ascended, ix. 4
Sella, Q., obituary notice, xi. 477, 486
Sella, V., photographs by, xi. 47, 178, 192, 410; xii. 169, 360, 464; xiii. 176, 463; xiv. 402, 415; xv. 96
— photographs of Dauphiné, xiv. 250
— — of the Caucasus, xv. 510
Sellajoch, xiii. 23
Selle, Col de la, P. iii. 215; i. 306
— Glacier de la, hut, ix. 232
— Vallon de, P. iii. 202, 221
Selletta Pass, vii. 246
Sellettes, Col des, viii. 97
— — without guides, ix. 231
Semeltind, by S.W. arête, xii. 470
Semmering Pass, accident near, xiii. 399
Seng Pass, xv. 550
Sengies, Col de, viii. 104
— Pointe de, ascended, viii. 104, 300
— — height of, xii. 176
Sengla, la, xii. 523
Senza Nome, Punta, ascended, xii. 67
Sept Laux, Chalet, x. 488

Digitized by Google

Sept Laux, Col de, i. 296
Sera, Pian di, vii. 252
Seravalle, vi. 132
Serchio valley, vii. 380
Serengia ascended, x. 296
Serpentine, Col de la, v. 319; vi. 366
— Mont, ascended, iv. 205
Serravezza, vii. 215, 377
Serre, Grande, ascended, ix. 363; x. 354; xi. 20
— — nomenclature, xi. 480
Sertig Pass, i. 318
Sertz, Gran, by N. arête, xiv. 486
Sesiajoch, i. 49; ii. 134; iv. 384; v. 143, 367; viii. 379; xii. 76
Sestrières, Col de, hut on, xi. 241
— Rognosa di, ascended, xi. 112
Severen, Col de, iv. 204
Severn, A., pictures by, xv. 393
Seylières, Col de, P. iii. 143; i. 26
— — botany, P. iii. 143
— — red snow on, P. iii. 144
Seymour, Miss, pictures by, xii. 341
Sgumain, xiii. 442
Shalbruz ascended, xv. 321
Shaour-tu Glacier, xiv. 454
Shari-tau, xv. 319
Shasta, Mount, ascended, v. 394; viii. 394
— — glaciers on, xii. 305
— — height of, vi. 52
Sherman peak ascended, v. 366
Shialker, iii. 62
Shichildi Glacier, xiv. 442, 454
Shieldag, xiii. 474
Shigri group, iii. 133
Shin Pass, xv. 321
Shkaltra, xv. 250
Shkara, xiii. 372, 519
— ascended, xiv. 93, 197
— attempted, xiv. 89
— Col, xiv. 89, 91, 190
— height of, xiii. 364
Shoda ascended, xiii. 374; xiv. 18; xv. 319
Siah Koh, ix. 292
Siara, Monte, ascended, x. 106
Sibolet, Colle di, ix. 346
Sieben Brunnen, P. i. 327
Siedel Rothhorn ascended, xiv. 154
Siedelhorn, glacier marks on, P. i. 409
Siège Carré, Col du, x. 460
Signal Küppe ascended, xii. 73
— — by S.E. arête, xiii. 414
Signal Küppe, first ascent, P. ii. 377
— — hut on, xv. 558
— — in winter, xii. 524
Signalé, Pic, ascended, x. 93, 348
Signaljoch, xi. 120
Sikaram ascended, ix. 288; x. 12
Sikkim Himalaya, ix. 384; x. 1
Silberbast, xiii. 555
Silberhorn ascended, i. 197; ii. 210; v. 277; xiv. 38
— attempted, i. 134
— by W. arête, xiii. 416
— from the N., ii. 254
— from the Roththal, xiv. 31
Silber Pass, *see* Lysjoch
Silvretta hut, iv. 152
— Pass, i. 436
Simelihorn in winter, xii. 172
Similaun, accident on, xv. 273
— ascended, xiv. 459
Similaunjoch, xiv. 161, 460
Simla, iii. 54, 118
— to Chini, vii. 259
Simletind, v. 162
— ascended, xiii. 154
Simmeli Pass, vii. 126, 215
Simolchum, *see* Siniolchim
Simonyspitze ascended, xii. 528
Simpson, W., pictures by, ix. 513
Simson, E. C., photographs by, xii. 464
Sinai, i. 205
Sinchal, x. 5
Sincholagua ascended, ix. 513; x. 185
Singalila chain, x. 7
Siniolchim, xii. 440
Sion, festival at, vii. 159
Sipan Mount attempted, x. 236
Sir Donald, Mount, xiv. 58
— — ascended, xv. 329
Sirac ascended, viii. 332; ix. 361; x. 144
Sirkhubasson, Tau, xii. 316
Sirtori, A., accident to, xiv. 140
Sissone, Monte, ascended, i. 381
Sissu peak, iii. 131
Sitka, xiv. 346
Six hundred 'Grandes Courses,' xiv. 510
Sixt, ii. 49
Skagastölstind, accident on, xi. 145
— ascended, xi. 144
Skaptar Jökull, eruption of, P. ii. 24
Skatykom, xii. 495

Digitized by Google

Skatykom Choch, *see* Adai Choch
— Glacier, xiv. 452
Skeidarár Jökull, eruption of, P. ii. 35
– river, P. ii. 38
Skenes Skali, iv. 162, 245; xiii. 371; xiv. 15
Skjælbrej Vand, xiv. 384
Skorpil, H., accident to, xiv. 477
Sky, dark colour of, in the High Alps, i. 48
Skye, xiii. 265, 433; xv. 422
Sleeping bags, i. 27; ii. 2; xiii. 464, 523
Sletmarkhö ascended, xiii. 155
— by W. ridge, xii. 470
Sligachan, xiii. 437; xv. 424
Slogen, xiv. 396
— ascended, xii. 267
Smith, J. W. G., pictures by, vii. 168; x. 183; xi. 192; xii. 168; xiii. 339, 463; xv. 97, 393
Smörskredtind ascended, xii. 267
Smuke Jente-Tind ascended, xiv. 508
Snaefell Jökull, vii. 51
— — ascended, v. 38
Snow, blue light in, iii. 220
— green shadows on, i. 95
— phosphorescent, P. iii. 52, 71; i. 143
— red, P. i. 379; P. iii. 144, 369; i. 152; xii. 319
Snow-blindness, P. ii. 443; vii. 263; xiii. 477; xiv. 125
— in chamois, xiii. 345
— precautions, ix. 175
Snow-burn, xiii. 389; xiv. 122
Snowdon, by S. face, xi. 242
— circular rainbow on, xi. 482
— geology of, P. i. 426
Soana, Val, P. iii. 273
Sobretta, Monte, v. 182
Societa degli Alpinisti Tridentini, xv. 446
Société des Touristes du Dauphiné, formation of, vii. 399
Sognefjord, iii. 79; v. 53
Solco d'Equi, vii. 387; xi. 330
Soleitinder ascended, xiv. 162
Solliette, Pointe de, ascended, xii. 116
Solmona, viii. 362
Som, Grand, ascended, i. 179
Sommeiller, Col, xi. 350
Sonadon, Col du, P. ii. 241, 252; v. 310; vii. 398
Sondi Dove, Forcella di, vii. 251
Sonklar, K. von, obituary notice, xii. 255
— Fraülein von, accident to, xiii. 114
Sonnblick, Hoher, observatory, xiii. 39
Sonnenberg, P. iii. 74
— pension at, i. 96
Sonnighorn ascended, xi. 181
— by N.W. arête, xiv. 503
— by S. arête, xiv. 502
Sookee, vi. 390
Sooroo route, iv. 194
Sorapis attempted, vi. 201
— in winter, x. 495
— without guides, xi. 182
Sorba, Bocca di, x. 331
Soreiller, Aiguille du, ascended, xi. 348; xv. 542
— — without guides, ix. 91, 230
Souffles, Pic des, E. summit, xv. 293
Soukhoum Kaleh, fever, xiii. 376
Spähnhorn ascended, xiv. 502
— Klein, ascended, xi. 418
Spain, maps of mountains, vi. 149
— sport in, vi. 70
— table of heights, vi. 73
Spalmo, Lago, Corno di, ii. 408
Spanörterjoch, i. 435; xv. 74
Spanort, Gross, ascended, iv. 53; vi. 339; xv. 74
— Klein, ascended, viii. 464
Sparta, viii. 320
Speranza, Picco della, ascended, i. 12
Spescha, Placidus à, vi. 332; x. 289
— Porta da, x. 305
Spillgerten ascended, xi. 418
Spiolto, Grava di, vii. 13
Spiti river, iii. 63
Spitzberg explored, xi. 182
Sport, Alps, iv. 129, 311
— bears, xii. 343
— Grisons, P. i. 385
— Himalayas, iii. 120; iv. 87; xi. 203; xv. 119
— Kurdistan, xiii. 300
— Lapland, vii. 177
— Norway, iii. 78; iv. 18
— Pyrenees, P. iii. 118
— Sardinia, viii. 126
— Spain, vi. 70
— wolf-hunting, vi. 174
Spottiswoode, W., obituary notice, xi. 307
Srinágar, iii. 52, 118
Stach, K., accident to, xiv. 478

Digitized by Google

Stachelberg, P. i. 371
— fire at, P. i. 383
— hotel at, i. 96
Stammerspitze ascended, x. 360; xii. 124
Stappen, basaltic formations of, v. 38
State intervention in Alpine matters, xiv. 251
Statoja, Cima del, xi. 450
Stauniès, Passo di, vii. 15
Stecknadelhorn, x. 339
— ascended, xiii. 413
Stein, xv. 72
— Alp and Glacier, P. iii. 86
Steinalbljoch, vii. 256
Steinberg ascended, xv. 73
Steinbock ascended, i. 376
— *see* Bouquetin
Steinernes Meer, accident at, xiii. 399, 468
Steinlimmi, xii. 266
Steinschlagjoch, iv. 383
Stella, Monte (Corsica), x. 199
— Monte della, ascended, ix. 340
— — nomenclature, ix. 410
— Pizzo, ascended, ii. 272
Stellijoch, xii. 121
Stelvio Pass, vii. 50
Stenico, v. 258
Sterkhorn ascended, xiv. 400
Stillup-grund, vii. 237
Stintzing, Dr. von, accident to, xi. 345
Stockgron ascended, x. 297
Stockhorn (Thun), accident on, v. 372
Stockje hut, viii. 376
Stone whirlwind, iv. 217
Storivellir, vii. 52
Storms, iv. 216
Stragio, *see* Trajo
Strahlbett ascended, xi. 363
Strahleck, P. i. 255; ix. 486
— derivation of, P. i. 273
— early passage of, P. i. 280
— in 1843, xv. 120
— in winter, iii. 208; iv. 319
— lost on, iv. 39
— Old, iv. 154
Strahlegghorn ascended, xiv. 157; xv. 308
Strahlgrat, viii. 341
Strahlhorn ascended, viii. 378
— by S. face, vi. 91
— by S.E. face, xi. 363
Strahlhorn by S.W. ridge, xv. 551
— from the Weissthor, vi. 296
Strahlkogel ascended, xiv. 463
Stranciacone, Capo, x. 324
Strandatinor, vii. 52
Streich, K., accident to, xiv. 99, 432; xv. 26
— obituary notice, xiv. 134
Strim Pass, vi. 334
Stuart, C., pictures by, xv. 167
Studer, B., obituary notice, xiii. 333
Studer, G., obituary notice, xv. 343
Studerhorn ascended, vi. 93
Studerjoch, i. 364; ii. 413
Stule-vsek, iv. 165; xii. 92; xiv. 437; xv. 29, 316
Stumpf, J., xii. 181
Styggedalstind, xi. 146
— ascended, xiv. 509
— from Maradal, xiv. 162
Suanetia, xiii. 357, 511
— travel in, xi. 472
Suanetian race, character of, iv. 249
Suc, Mont, ii. 104
Südlenzjoch, xiii. 125; xiv. 153
Südlenzspitze, xiii. 164
— ascended, xi. 117, 181, 385; xiv. 153
— from the N., xiii. 125
Suessa, Becci di, ascended, xiv. 493
Suffaid Koh, ix. 288; x. 12
Suggestions for Alpine travellers, P. i. 490
Suha, xiv. 421
Sulden Glacier, advance of, vi. 42
— Thal, i. 407; ii. 341
Sulitelma, vii. 174
Sultanpúr, iii. 127
Sultra Tau ascended, vii. 102, 116
Sulzbach, Ober, Thörl, ii. 140
Sulzer-Ernst, A., accident to, xiii. 398
Sulzerjoch, ii. 141
Sunburn, xiii. 389; xiv. 122
Sungnam, iii. 62
Supersax fund, xii. 465
Suphelledal, v. 54
Surcombras ascended, x. 296
Surenen Egg, P. iii. 84
Surlei, Piz, ascended, xi. 370
Sursass Alp, murder on, xiv. 141, 327
Surts-Hellir, P. ii. 111
Susine, Valle delle, ii. 17
Sustenhorn ascended, ii. 158
— from E., xiv. 504
— from the Voralpthal, xv. 375
— without guides, x. 418

Digitized by Google

Sustenjoch, P. iii. 87; xv. 73
Sustenlimmi, xv. 73
Sutlej rope bridge, iv. 79
— valley, iii. 57
Suwarrow, retreat of, P. i. 376
Svartisen explored, xi. 182
Svina-fell Glacier, P. ii. 44
Swiss-English, xii. 129
Swiss local names, signification of, iv. 214
Switzerland, Alpine map of, ii. 350
— illustrated, ix. 447
— in 1800, vii. 431
— inundations in 1868, iv. 177
— new map of, vi. 208
— physical geography of, P. i. 268
— travelling in 1830, xi. 474
Sympiezometer, the, ii. 32, 397
Sziassa, *see* Sciassa

TABARETTA Glacier, avalanches, ii. 48
Table of heights, P. i. 517; P. iii. 506
Tacul, Aiguille du, ascended, x. 95; xv. 150
— Col du, in winter, xi. 242
Täschhorn ascended, viii. 380
— by E. face, xv. 307
— by S.W. arête, xiii. 414
— from the Domjoch, ix. 109; xv. 108
— from the Fee Glacier, ix. 200
— from the Mischabeljoch, viii. 345
— from Saas, viii. 108
— from the S.E., xi. 363
Tafonato, Capo, x. 324
Tagherot Pass, vi. 226
Tagliaferro ascended, x. 159
— by N. ridge, xv. 92
Taillade, Pène, xii. 18
Taillante, Roche, ascended, xii. 110
Tairneilear, xiii. 440
Tairraz, J., death of, viii. 303
Talèfre, Aiguille de, ascended, ix. 364; x. 25
— Col de, ii. 132; v. 135
— Petite Aiguille de, ascended, xi. 116
Talung, xii. 439
Talvik, P. iii. 429
Tamgout Lalla Khadija, xiv. 74
Tamina river, accident, ii. 367
Tamischbachthurm, accident on, xiii. 399
Tanneiron, ix. 146
Tannheiser, H., accident to, xiv. 138
Tantermuozza, Val, v. 280
Tarasp, mineral baths of, v. 281
Tarbessou, Pic, xii. 19
Tarentaise, geography of, P. iii. 341
Tarn, Mount, iv. 328
Tarrejokk, vii. 176
Tartagine, Bocca di, x. 319
Tarvis Pass, vi. 372, 435
Taschach Glacier, vi. 148
Taschach-hütte, xii. 264
Tasman Glacier, xi. 4, 57, 137, 367; xii. 163
— Mount, xi. 139
Tau, xiii. 365, 503
Taufers, vii. 284
Taugwalder, Peter, obituary notice, xiv. 169
Taveyanaz precipices, accident on, xii. 109
Taygetus ascended, viii. 316
Tchagerjoch, *see* Tschagerjoch
Tchamtchachi Tchai, xii. 497
Tchegem, vii. 101; xii. 94
Tcherek valley, vii. 100
Tebulos, xii. 325
Tejeda, Sierra, vi. 58
Telbin, H., accident to, ii. 420
Telemeter, xv. 357
Telleccio, Col de, iii. 106; iv. 57; vii. 318; ix. 76
Tempe, Col de la, P. iii. 183; viii. 64
Temperature, effects of exercise on, v. 212
— suggestions for observing, P. i. 508
Tenda, Col di, xi. 228
— — inn at, ix. 499
Teneriffe, xiii. 6, 10, 326
Tents, ii. 4
Teo, Punta di, ascended, ii. 361
Tepli, Tau, xii. 316
Téramo, viii. 365
Tercier, S., accident to, xiii. 398
Terek, the, xii. 325
Teresenga, Val, v. 253; vi. 303
Terglou ascended, iv. 345; xii. 525
— huts on, xv. 375
Terni, viii. 357
Terrarossa, Punta, *see* Wasenhorn
Terre Noire, Col de, xii. 112
Terri, Piz, ascended, x. 313
Tersiva, Punta di, iii. 116
— — ascended, viii. 305
— — in spring, vii. 268

Digitized by Google

Terza Grande ascended, x. 106; xv. 161
Tessonet, Pointe de, ascended, iii. 117
Tête Noire, carriage accident, x. 365
— — in winter, vi. 407
Tetnuld, xiii. 358
— ascended, xiii. 364, 513; xv. 558
— height of, xiii. 364
— Tau, *see* Gestola
Teton, Grand, ix. 250
Tetret, Grand, Col du, iv. 58; vi. 111; ix. 76
Tezio, Monte, xii. 175
Thabor, Col du, ix. 96
— Mont, accident on, xi. 345
— — ascended, ix. 96, 176
— Pic du, ascended, ix. 96
Thälijoch, i. 138; vii. 126; ix. 368; x. 98
Thelemarken, iv. 37
Thermometers, v. 221
— on summits, i. 48
Thian Shan, xiii. 46
Thierberg ascended, P. iii. 88
— peaks near, ascended, xv. 549
Thierberglimmi, xv. 73
Thing-vellir, P. ii. 6
Thion, Crête à, vii. 163
Thirlmere, viii. 401
Thorstein ascended, ix. 495
Three Sisters, viii. 393
Throndhjem, iii. 81
Thuber Glacier, xiv. 89
— Pass, xi. 473; xii. 423
Thuile, la, P. iii. 350, 391
Thuriaz, Mont, *see* Pourri, Mont
Thurnerkamp ascended, vi. 95; vii. 238
— first ascent of, xi. 182
— in winter, xiv. 325
— without guides, x. 498
Thurnerkampjoch, vi. 95; vii. 239; viii. 161
Thurwieser Spitze ascended, xii. 528; xv. 329
Tichtengee, *see* Tiutiurgu
Tiefenbachjoch, vii. 156
Tiefenbach Kogel ascended, vii. 156
Tiefenmattenjoch, v. 275, 321; viii. 383
Tiefenstock ascended, xiii. 171
Tierser Thal, vii. 357
Tighietto, Capo, x. 324
Tignes, P. iii. 350, 359
Tignes, inn at, ix. 238; xii. 271
— Lac de, P. iii. 368
— la Val de, inn at, ix. 238
Tinéa valley, ix. 337, 396
Tinibras, Mont, ascended, ix. 337
Tinneverges du Buet, ii. 54
— Pic de, i. 431
— — ascended, ii. 56
Tinzenhorn ascended, ii. 362; iv. 209; v. 207
— in winter, x. 495
Tinzen Thor, v. 211, 284
Tiper Pass, xii. 423
Tirach Mir, xii. 445
Tirourda, Col de, xiv. 74
Tisé, Mount, xiii. 40
Titian, vi. 133
— monument to, viii. 226
Titlis, accident on, ii. 223
— in winter, xiii. 549
Titlisjoch, xv. 73
Tiutiurgu, xiv. 439
Tobarettajoch, x. 104
Toblach, inn at, viii. 115
Toblacher Feld, vii. 20
— Riedl, vii. 20
Tobogganing, xiii. 77, 467
Todung, iii. 67
Tödi, P. i. 378
— ascended, ii. 134; iii. 153; vi. 334; xii. 480
— first ascent, x. 303
— from the Russein Alp, ii. 409
— hut on, i. 320
— in winter, x. 418, 495
— Pass, P. i. 375
Tök, peak of, iii. 146
Törzburg, castle of, iii. 36
Tofana ascended, iv. 51; vi. 200
— from Val Travernanzes, xii. 185
— without guides, xii. 128
Toillies, Tête des, ascended, xiv. 144
Tolgyesch, iii. 28
Tolo, Monte, x. 319
Tonale Pass, Charles the Great's march, vii. 449
Tondu, Mont, Col de, i. 430; vii. 400
Tonglo peak ascended, vi. 46
Tonini, Col, ix. 474
Torano, Canale di, xi. 331
Torghatten, iii. 81; v. 49
— natural tunnel in, v. 51
Toro, Trou de, i. 383
Torre, la, P. iii. 145

Digitized by Google

Torrent, Col de, murder of traveller on, i. 138, 207
Torrone, Colle del, xii. 179
— Pizzo, E. peak, xii. 179
Tosa, Bocca di, vi. 92
— Cima, ascended, iv. 45; v. 255; vi. 92; xi. 311, 320; xii. 126, 521
— — nomenclature, i. 443; vii. 46
— falls, ix. 59; xi. 395
Tosiccia, viii. 366
Tour, Aiguille du, ascended, i. 429
— — in winter, xi. 242, 261
— Col du, P. i. 13; P. ii. 189; v. 295; ix. 26
— — in winter, xi. 242, 261
— Glacier du, P. i. 1; i. 265
— Noire ascended, viii. 106; xii. 530
— — Col de la, i. 136, 274; xiv. 405, 516; xv. 497
— Ronde ascended, iv. 59; v. 232; xii. 120
— — Col de la, iv. 59; v. 230; xii. 121
— — ridge, xiv. 404
Tournalin, Grand, ascended, i. 137
— — in spring, vii. 268
— — in winter, vii. 214
— — proposed path up, v. 398
Tournanche, Col, i. 433; ii. 86
— — variation of, x. 162
Tours Sallières, Col des, i. 196
Tovello, Lago di, vi. 303
Townsend, Mount, ascended, xiii. 494
Trachsellauinen, inn at, ix. 487
Trafoierjoch, iv. 47
Traill's Pass, xii. 31
Trajo, Glacier du, P. iii. 297, 310
Trampal, El, vi. 65
Travellers and guides, comparative skill of, v. 87
Traversette, Col de la, i. 26; x. 477
— — in 1840, xv. 45
— tunnel, x. 411, 477
Traversière ascended, ix. 101; xii. 414
Travignolo, Passo di, vi. 97
Travitale, Col, iv. 395
— Val, iv. 389
Tre Croci Pass, vii. 12
— Sassi Pass, vii. 331
Trélaporte, P. i. 40
Trélatête, Aiguille de, ascended, i. 375; ii. 103; v. 143
— Col de, i. 429; ii. 285; vii. 400
Trélatête, Glacier de, P. i. 64
Tremœndstind ascended, xiv. 383
Tremoggia, Piz, ascended, xv. 313
Tresenta ascended, xi. 361; xii. 87; xiv. 150, 289
Tresero, Monte, ascended, ii. 144, 214
Treskavica, xiv. 429
Tribulazione, Becca della, ascended, vii. 316; xii. 416, 514
— Col della, vii. 317
Triftenjoch, P. iii. 90
Triftjoch, P. i. 126; vii. 391
— avalanche, P. i. 142
— botany, P. i. 153
Triftlimmi, ix. 489
Triolet, Aiguille de, i. 263
— Col de, i. 374; ii. 99
Trippachthal, vii. 236
Trisuli, xii. 28
Trogen Alp, accident on, xiii. 398
Trois Evêchés, Pic des, ascended, x. 83
— Pointes, Col des, viii. 97
Troldtind attempted, xiv. 394
Troltinderne, iv. 27
Trubinesca, Punta, ascended, ii. 361
Trützi Pass, vi. 94
Trugberg botany, P. i. 321
— derivation of, P. i. 314
Truzbuc Glacier, xiv. 406
Tryfan, circular rainbow on, xii. 172
Tsanteleina, *see* Ste. Hélène
— Col de la, xiv. 489; xv. 154
Tschagerjoch, ix. 238; x. 72
Tschengelsjoch, ii. 354
Tschierva Glacier, viii. 198
— Pass, ii. 406; vi. 94
— Piz, accident on, v. 372
— — by W. arête, x. 100
Tschingel, Cima di, ascended, iv. 51
— the dog, death of, ix. 310
— Pass, i. 22
— — chamois hunting, iv. 129
— — in 1839, xv. 41
Tschingelhorn ascended, iv. 130
Tschingellochtighorn, xi. 418
Tschudi, J. von, obituary notice, xiii. 336
Tschuggen in winter, xii. 172
Tsforga ascended, xv. 317, 515
Tshubiani, xiii. 372
Tsoji-la Pass, iii. 151

Digitized by Google

Tuckett, F. F., Order of S. S. Maurice and Lazarus conferred on, ii. 91
Tuckett, Col, ix. 359
— Spitze ascended, iv. 50
Tuilsas Mta, xiv. 57
Tukht, ix. 290
Tunbergsdalsbræ, iv. 31
Tunglung Pass, iii. 141; ix. 289
Turanda, iv. 77
Turbat, Col de, vii. 316; xiii. 58
Turbia, spur of, xi. 228
Turge de la Suffie ascended, x. 353
Turin, panorama from, v. 269; vi. 53
Turlo Pass, i. 50
— — in 1840, xv. 51
Turner, anecdote of, vi. 132
Turres, Col de, xi. 352
Tutuin Glacier, xiv. 433, 453; xv. 30, 174
Tuxerjoch, accident on, xiv. 477
Tyndall, J., accident to, i. 437
Tyndall Glacier, xiii. 92; xiv. 354
— Mount, ascended, v. 391
Tyrol, floods in, xi. 124
— mountaineering in, iii. 217
— new survey, xiii. 424; xiv. 252
— *v.* Tirol, vii. 166
Tyrolese guides, vi. 369

Uamha, Sgurr-na-h, ascended, xv. 315
Uccello, Capo, x. 324
— Pizzo d', vii. 387
— — ascended, xi. 324
Uertsch, Piz, *see* Albula, Piz
Uku ascended, xiii. 368; xiv. 10
Uledal Pass, v. 161
Uledalstind ascended, v. 162
Ullu-auz Bashi, *see* Mala Tau
— Glacier, xiv. 99
— Pass, xiv. 433, 437; xv. 31, 174
Ulrichen, inn at, vii. 165
Ulrichshorn ascended, x. 335
— first ascent, ix. 28
— from the Hochbalm Glacier, xiii. 164
Ulrichsjoch, *see* Windjoch
Ulvö, iv. 430
Umenak, vi. 217
Uncompahgre range, xv. 481
Unteraarjoch, iv. 155
Unterbachhorn ascended, vi. 146
Untersteiner, A., accident to, xv. 273
Untersulzbachthörl, xii. 529
Ural Mountains, no glaciers in, xii. 312
Uranaastind ascended, xiv. 508
Urathörner, xii. 266
Urbach Thal, P. i. 260
Urbakken, xii. 267
Uri Rothstock ascended, P. iii. 80
Urlaun, Piz, ascended, ii. 134; x. 306
Uruch, iv. 161; xiii. 373
Urusbieh, iv. 163; vii. 102, 113; xii. 94; xiii. 355
— hunters of, xiii. 357
Ushba, xii. 97; xiii. 359
— attempted, xiv. 96, 190, 311, 451; xv. 319
— N. peak ascended, xiv. 93, 199
— Glacier, xiii. 505
Ushkul, xiii. 360, 372; xiv. 15
Usseglio, inn at, xi. 412
Utchkulan, vii. 103
Utsalady, v. 357
Uttlidal, v. 59

Vaagekallen, iv. 23, 435
Vacca, Cima della, ascended, xiii. 406
— — nomenclature, xiv. 482
Vadred, Piz, ascended, ii. 361; iv. 50
Vajolet ascended, x. 362
— glen, vii. 351
— Passo di, ix. 114
Val, la, P. iii. 352
— Cadin da, vii. 254
— inn at, xiv. 518
Valais and Grindelwald, intercourse between, in the 16th century, xv. 74
Valasco, Col de, ix. 338
Valcornère, Col de, xv. 137
Valdieri, inn at, ix. 498
— Bagni di, ix. 404
— — inn at, ix. 498
Valeggia, Passo di, x. 99
Valeiglia, Combe di, iii. 107; viii. 307
Valenta, Lt., accident to, xiv. 140
Valetta, Pointe de la, ascended, xi. 114; xii. 77
Valette, Col de la, x. 146
Valgrande di Valle, Pizzo, ascended, xv. 266
Vallante, Col de, i. 26; ix. 354; x. 459, 464

Digitized by Google

Vallante, Val de, P. iii. 153
Valle Persé, Cima della, ascended, xi. 123, 318
Vallesinella, Cima di, ascended, xi. 319, 413
Vallette, Col de la, iii. 106
Vallezza, Bocca di, vi. 303
Valloires, Col de, v. 128
Vallombrosa, xiii. 557
Vallon, Cima di, xi. 322, 414
— — ascended, viii. 398
— Cime du, ascended, viii. 331
— — without guides, ix. 231
— Col du, vii. 314
— de la Bérarde, Col du, *see* Avalanches, Col des
— Pic du, ascended, viii. 334
— — without guides, ix. 91, 229
Vallone, Gran, Punta del, *see* Ambin, Dents d'
Vallonet, Pointe du, ascended, xiii. 117; xiv. 487
Valloria Pass, ii. 361
Vallouise, inn at, xiii. 461
Valnontey, Col de, xiv. 148, 288
— Combe de, v. 173
— Tête de, ascended, xiv. 148, 287
Valolia ascended, x. 296
Valpelline, Col de, P. ii. 306; i. 64
Valrhein, Piz, ascended, i. 380; ii. 135; iii. 170; x. 309
— — crossed, iv. 237
Vals inn, x. 487
Valsenestre, Brèche de, vii. 314
Valsorey, Aiguille du, xv. 258
— Col de, ii. 364; xv. 258
— Glacier de, P. ii. 246
Valtendra, Col, xi. 397
Van, xiii. 293
Vanca, Cima, vii. 11
Vancouver, Mount, viii. 386
Vanin, Colle di, xi. 398
Vanoise, Aiguille de la, demolished, P. iii. 404
— Col de la, P. iii. 370
Varallo, inn at, x. 161
— meeting at, xiii. 183
Varappe, Aiguille de la, ascended, xi. 486
Varens, Aiguille de, v. 291
— — ascended, xii. 12
Vasevey, Col de, v. 276, 328
Vatna Jökull crossed, vii. 336; viii. 168
Vaudaletta, Pointe de, ascended, xii. 413
Vaudet, Col de, ix. 482
Vaudois, Baume de, P. iii. 237
Vaulion, Dent de, in winter, xii. 171
Vaurze, Col de la, ix. 361
Vautisse, Tête de, ascended, xiii. 401
Vaxivier central peak, xv. 294
— E. summit, xv. 293
Véfrette, Col de, xiii. 407
Vegetation of High Alps, iv. 214
Veglia, Alpe di, xi. 396
— — inn at, xv. 153
Veisevi, Grand Dent de, ascended, xiii. 451
— — by E. arête, xv. 546
Veitestrand, v. 57
Vélan, Aiguille du, ascended, xiv. 271
— Mont, ascended, P. i. 76; vi. 92; xv. 213, 258
— — by S.E. face, xv. 301
— — early ascent, xv. 439
— — first ascent, ix. 27
Veleta, Col de la, iii. 17
— Corrál de la, iii. 12; xiii. 87
— Picacho de la, ascended, iii. 17; iv. 119; xiii. 83
Venaus, avalanche at, xii. 262
Vendetta in Corsica, iv. 281; x. 216
Venediger, Gross, accident on, ii. 224
— — ascended, xv. 556
— — in winter, xiv. 248
— — without guides, x. 498
Vénéon river, P. iii. 200
Venerocolo, Monte, viii. 90
Venezia, Vedretta della, vi. 302
Venezuela, mountains of, vi. 101
Venodel, Forcella di, vii. 242
Venos, P. iii. 185, 201
— Col de, P. iii. 201
Venosc, Alpe de, Col de l', x. 264, 276
Ventina Glacier, vii. 328; viii. 22
— — adventure on, xii. 196
Ventoux, Mont, Petrarch's ascent, ix. 183; x. 174
Verbier, Col de, P. i. 113
Verde, Rio, iv. 120
Verdonne, Col, x. 89, 145; xii. 115
— Pic, ascended, ix. 360; x. 143; xii. 115
Vergio, Col de, x. 314
Vernagelwand, xv. 362

Digitized by Google

Vernagt Ferner, discovery on, xiv. 475
Vernel ascended, xv. 79, 156
— without guides, xii. 128
Verona, Pizzo di, ascended, ii. 136
Verpeil Spitze ascended, vi. 148
Verra, Col de, *see* Zwillingejoch
— Glacier, discovery on, vi. 99
— Klein, Glacier, vii. 105
Verstanklahorn ascended, x. 405
Verstankla Thor, ii. 362
Vert, Col, xv. 261, 301
Verte, Aiguille, ascended, ii. 131, 208; iii. 68; iv. 140
— — attempted, i. 273
— — from the Argentière Glacier, viii. 105, 289
— — from the S.W., x. 357
— de Valsorey, Aiguille, ascended, xiii. 487
Verzasca, Val, x. 67, 146
Veso di Forzo, Monte, ascended, xii. 417, 516
Vespero, Poncione di, x. 157
Vesulus, Mons, P. iii. 130
Vette, v. 60
Vettisfos, xi. 146
Veymont, Grand, ascended, xiv. 214
Vezzana, Cima di, v. 117
— — ascended, vi. 97; vii. 57; xiv. 295
— — height of, viii. 279
— — without guides, xii. 128
Vicentino, Col, ascended, vi. 130
Vico, x. 208
— Soprano, i. 256
Victoria, Mount, ascended, xv. 71
Video Spitze ascended, i. 398
Viehderjoch, xi. 123
Viejo, El, ascended, i. 223
Viesch, inn at, vii. 440; viii. 453
Viescher Gabelhorn ascended, xv. 374
Vieschergrat, old pass across, x. 47
Viescherhorn, Gross, ascended, i. 236, 319; vi. 147
— — by N.W. arête, xiv. 156, 513; xv. 309
— — in winter, xiii. 466; xiv. 205; xv. 79, 204
— — pole on, xiv. 323
— — position of summit, xiii. 381, 555
— — record on, xii. 467
— — without guides, xii. 424
Viescherhorn, Hinter, without guides, xii. 421, 424; xiii. 378
— Klein, *see* Ochsenhorn
Viescherjoch, i. 105; ix. 438; xiii. 267
Vieux, Col, ix. 352; x. 458; xi. 114; xii. 110
Vignemale ascended, i. 131; vii. 48; xii. 24
— Col de, i. 132
— in winter, v. 246
Vigo, vii. 358
— inn at, x. 73
Villa Montecchio, viii. 86
Villanova, Count U. di, accident to, xv. 274
Villard, P. i. 342
Villarette, P. iii. 153
Ville, Pas de la, xiv. 214
Villergruberjoch, xi. 124
Vinaigre, Mont, ascended, ix. 145
Vincent Pyramide, xii. 68
— — first ascent, P. ii. 376
— — by S.W. arête, xii. 68, 122
Vios, Passo di, ii. 353
— Spitz ascended, ii. 353
Visdal, v. 155
Viso, Col du, x. 352, 472, 476
— di Vallante ascended, xii. 110
— Monte, ix. 138
— — ascended, P. iii. 147; x. 453; xiv. 169
— — botany, P. iii. 139
— — by E. face, xiv. 267
— — by the Vallante face, xii. 175
— — explorations round, P. iii. 129
— — from Crissolo, x. 470
— — from the N., ix. 353
— — from the N.E., x. 350
— — height of, i. 30
— — hypsometrical observations, P. iii. 174
— — lightning tubes on, xiv. 121
— — night on the summit, i. 26
— — without guides, ix. 223
Visolotto ascended, x. 351, 475
— Col du, x. 352, 472, 476
Visp, inn at, x. 487
Vispthal in the 16th century, xii. 380
Vittoria, Punta, ascended, xii. 67
Viva, Roccia, ascended, vii. 211
— — from the E., xiv. 484
Vivario, x. 203

Digitized by Google

Vlasulja ascended, xiv. 419
Voddevijokk, vii. 176
Vœngetind ascended, xi. 153
— second peak, xii. 268
Vöringfos, iii. 79; iv. 35
— circular rainbow at, xii. 272
Vofrède Glacier, xv. 264
Vogeljoch, ii. 135; iii. 174
Vogorno, x. 147
Vorab in winter, x. 494
Vouasson, viii. 7
— ascended, xiii. 453
Vraita, Val, P. iii. 149
Vuibez Glacier, P. ii. 281; v. 351
— — cave near, i. 65

Waigat Strait, vi. 217
Walcherhörner, *see* Viescherhörner
Wales, Alpine meeting, ix. 177, 384; x. 182, 282; xi. 182, 242
Walker, F., obitury notice, vi. 56
Walker the filibuster, i. 228
Wallroth, F. A., photographs by, xiii. 464
Walton, E., obituary notice, x. 74
— pictures by, ix. 303; xi. 409; xii. 168; xiii. 463
Wannehorn, Klein, ascended, ii. 411
Warak Dagh, xiii. 296
Wasenhorn ascended, xv. 266, 312
Wasifluh, accident on, ii. 420
Watson, W. G., accident to, xi. 192; xiv. 457; xv. 156
Watzmann, accident on, xv. 225
— from S. Bartholomä, xv. 501
— hut on, xiii. 265
— in winter, xiv. 248
Way, C. J., pictures by, xv. 234
Weber-Imhof, Herr, accident to, xv. 539
Weiss, G., accident to, xiii. 399
Weiss Stöckli, xiii. 127
Weisse Frau ascended, i. 207
Weisshorn, accident on, xiv. 136
— ascended, i. 39, 201; vii. 395; viii. 380
— attempted, P. ii. 360; i. 40, 44
— by W. face, xi. 416
— from the Bies Glacier, v. 274, 277, 305
— from the Schallenberg Glacier, viii. 340, 419
— from Zinal, ix. 366, 427; xiv. 515; xv. 192
Weisshorn, peak near the, xii. 122, 255
— without guides, xii. 128
Weisskopf, xiii. 555
Weisskugel, vii. 411
— ascended, iv. 383; ix. 35, 113; xi. 124; xiv. 459; xv. 159
— from the Langtaufererthal, x. 361
Weissmies ascended, viii. 151; ix. 29
— by S. face, xi. 119
— crossed, vi. 297; viii. 226; ix. 367
— from the Laquinjoch, xii. 123
— nomenclature, xv. 153
Weissmiesjoch, i. 433; ix. 367
Weissthor, New, vii. 128; xi. 200
— — from Monte Moro, i. 432
— — in 1840, x. 44
— — in 1843, xv. 147
— — in 1849, ix. 173
— Old, i. 201; xi. 196
Weitenalpstock ascended, ii. 409; vi. 335
Weitsattel, x. 493
Wellenküppe ascended, x. 359; xv. 306
— crossed, xiii. 124
— early name of, xiii. 555
Wellhorn ascended, vi. 146
Welter, Herr, accident to, x. 46, 177
Wendelstein, accident on, xiv. 476
Wenden Glacier, vii. 327
Wendenhörner ascended, xii. 267
Wendenjoch, vi. 78
Wendenstock ascended, vi. 298; xv. 73
Wengern Alp in 1839, xv. 40
Werang Pass, iii. 61
Wetherlamm in winter, v. 35
Wetterhorn, accident on, xi. 93
— ascended, ii. 211
— by N. face, iv. 154
— by the Renfen Glacier, xv. 369
— circular rainbow on, xii. 172
— crossed, i. 433
— first ascent, viii. (app.) 75
— from the Hühnergutz Glacier, ix. 112
— from Rosenlaui, ix. 487
— in spring, x. 238, 494
— in winter, vi. 405; x. 418; xiii. 549; xiv. 248; xv. 202
— without guides, x. 386, 419; xii. 128

Digitized by Google

Wetterlimmi Pass, *see* Renferjoch
Wetterlücke, i. 378, 434; ii. 210; xiv. 247
Wettstein, J. H. & A., accident to, xiii. 391, 468
Wheeler, D., accident to, xiii. 395, 468
Whitney, Mount, ascended, v. 394
— peak, xiii. 93
Whymper, E., Order of SS. Maurice and Lazarus conferred on, v. 375
— photographs by, x. 240; 424
— pictures by, xv. 97
Whymper Glacier, xii. 164
Widderstein, accident on, xii. 109
Wienerhütte, x. 489
Wiesbachhorn, Gross, ascended, vi. 351
Wiesler, H., accident to, xiv. 478
Wilde Pfaffen ascended, ii. 141
Wilder Freiger ascended, xiii. 127
Wildgrabenpass, vii. 22
Wildhorn ascended, viii. 271
— attempted, P. i. 340
— new route up, xi. 183
Wildspitze, accident on, xiv. 476
— ascended ii. 141; ix. 33; xiv. 459
— from the Taschach Glacier, vi. 148; vii. 156
Wildstrubel ascended, P. i. 326; viii. 272
— crossed, P. i. 336
Wilerhorn ascended, xii. 123
Wilkinson, Mr, pictures by, xii. 463
Wilkopf, accident on, xiv. 476
Williams, A., pictures by, ix. 448; x. 183; xi. 192, 409; xii. 169, 463; xiii. 176, 339, 462; xiv. 329; xv. 97, 167, 393
Willink, H. G., pictures by, xiii. 176, 339, 462; xiv. 64, 330; xv. 97, 169, 393
Willmann, H., death of, xiv. 479
Wilson, K., accident to, ii. 153
Wilson, Mount, ascended, xv. 316, 487
Wind River Peak ascended, ix. 243
— — — Glacier, ix. 244
Windgelle, Grosse, ascended, ii. 409; vi. 326; vii. 266; x. 306
— — W. peak, viii. 160
— Kleine, ascended, vi. 323; x. 307
Windjoch, xiii. 125, 163
Winkler, G., accident to, xiv. 136
Winter expeditions, *see* Mountaineering in Winter
Winter of 1871–2 in the Alps, v. 375
Winterjoch, v. 143
Winterstock ascended, xiv. 258
Winterthur, meeting at, xiii. 183
Wischberg, vi. 197
Wolf hunt, vi. 174
Wolfendorn Kind ascended, xiii. 479
Wolfsbachthal, vi. 197
Woolley, H., photographs by, xv. 96, 394
Wurdwan valley, iii. 52
Wurzen, tablet to Sir H. Davy, xiii. 265
— valley of, iv. 359
Wyoming range, ix. 241

Xidnaguri river, xii. 98

Yahtsetah-shah, *see* St. Elias Mt.
Yakatat, xiii. 89, 178; xiv. 347
Yakla Pass, xv. 112
Yalung, vi. 390
Yethongla Pass, xv. 112
Yosemite valley, v. 391
Young, Mr., accident to, ii. 382

Za, Aiguille de la, ascended, vi. 23; viii. 11; ix. 106
— — from the Glacier de Dauva Blantz, ix. 170
— — from the W., xiv. 498
— — structure of, viii. 18
— — without guides, xiii. 454
— Col de la, vii. 319
Zahlershorn ascended, ix. 439
Zahnkofel ascended, xv. 366
Zahnlücke, xiii. 122
Zallion, Dent de, ascended, xv. 303
Zanfleuron Glacier, P. i. 348
— — accident on, xiv. 474
Zanner Pass, xiii. 363, 515; xiv. 1
— — variation of, xiv. 89
Zapport Glacier, iii. 173
— Pass, ii. 135; iii. 177
Zarafshan Glacier, xiii. 47
Zardezan, Col de, i. 138
Zeblesjoch, xi. 123
Zebru Pass, i. 382, 402
— Val del, v. 183
Zeidler, Dr., accident to, xiv. 138

Digitized by Google

Zell, vii. 233
Zelline Val, vi. 143
Zembrasca, Monte, ascended, ii. 405
— Pass, ii. 405
Zemmgrund, vii. 235
Zemmthal, vii. 234
Zemusamdong, xiii. 27
Zenes Skali, *see* Skenes Skali
Zermatt, English Church, ii. 160
— glaciers, viii. 277
— guides, viii. 382; xiii. 106, 167, 177, 421
— in 1800, vii. 436
— in 1840, x. 44
— in 1845, P. i. 155
— in 1849, ix. 173
— in the olden days, xv. 223
— in winter, i. 77
— Souvenir de, ix. 447
Zernetz, v. 202
Zeyritzkampel, accident on, xiv. 141
Ziegler, K., accident to, xiii. 391, 468
Zillerthaler Ferner, accident on, x. 177
Zinal Glacier, P. i. 143
— inn at, xi. 242
— Pointe de, ascended, vii. 321
Zinaljoch, vi. 437; vii. 321
Zinereffien rocks ascended, xiii. 450
Ziria, Mount, ascended, ix. 157
Zmeiden, inn at, i. 94
— Pass, ii. 191
Zmutt Glacier, in 1843, xv. 145
— — Matterhorn from, ix. 449
Zoitecondoi, the, ascended, xv. 304
Zoldo, Val di, people of, vi. 267
Zovo, Monte, vii. 28
Zsigmondy, E., accident to, xii. 395
— obituary notice, xii. 405
Zucchi, F., accident to, xv. 539
Zuckerhütl ascended, vii. 157
Zugspitze in winter, x. 495; xiv. 248
Zumelles, Forcella di, vii. 13
Zumsteinsattel, viii. 338, 400
Zumsteinspitze ascended, xii. 74; xv. 223
— first ascent, P. ii. 376; v. 141
— from the Grenzsattel, xiii. 126
Zuort, Val, v. 283
Zupo Pass, i. 381
— Piz, from the Zupo Pass, v. 280
Zurich, meeting at, xv. 75
Zwillingejoch, i. 196
Zwölferkofel ascended, vii. 211
— from the Giralbathal, xiv. 60

PRINTED BY
SPOTTISWOODE AND CO., NEW-STREET SQUARE
LONDON

Digitized by Google

Digitized by Google

Digitized by Google

Digitized by Google

Digitized by Google

Digitized by Google

Digitized by Google

UNIVERSITY OF CALIFORNIA LIBRARY
Los Angeles
This book is DUE on the last date stamped below.

REC'D LD-URL

LD URL NOV 19 1969
NOV 11 1969
INTERLIBRARY LOANS
NOV 5 1969

THREE WEEKS FROM DATE OF RECEIPT
NON-RENEWABLE -UCR.

Form L9–Series 444

THE LIBRARY
UNIVERSITY OF CALIFORNIA
LOS ANGELES

Digitized by Google

UC SOUTHERN REGIONAL LIBRARY FACILITY
A 000 227 216 9

Digitized by Google

Digitized by Google

This is a reproduction of a library book that was digitized by Google as part of an ongoing effort to preserve the information in books and make it universally accessible.

Google books

https://books.google.com